The following grammar explanations and exercises use the terminology that I use in class. Other grammars that you consult will probably use different terms to talk about the same thing and approach the topics in different ways.

The order of the topics is not necessarily from the easiest to the most difficult. Use the table of contents to help find the topics that you need.

Some useful websites for extra grammar practice are:

http://www.grammar-quizzes.com/index.html

http://www.writing.engr.psu.edu/exercises/

https://www.englishgrammar101.com/

http://www.chompchomp.com/exercises.htm

Sites for basic English grammar practice:

http://www.myenglishpages.com/site_php_files/grammar.php

http://www.eslgold.com/grammar/explanations.html (explanation & exercises)

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WRITING REVISION CODES

Code	Example	Revision	
VERBAL GROUPS (VG)			
Verb concord	The job advertisement mention	The job advertisement mentions	
Verb form	teached	taught	
Verb sequence	This <u>has increase</u> my interest in I look forward <u>to receive</u> your reply.	This <u>has increased</u> my interest in I look forward to <u>receiving</u> your reply.	
Verb tense	Over the five years that I have been at ISEG, I was able to develop my communicative skills.	Over the five years that I have been at ISEG, I have developed my communicative skills.	
Use the infinitive to express purpose	I am writing you with the purpose of applying for the position	I am writing you to apply for the position	
Embedded question	This has given me insight into what are their needs.	This has given me insight into what their needs are.	
	NOMINAL GROUPS (NG)		
Structure check agreement determiner – N check modification structure Presenting / General participant: check determiner	 This skills different time of meals I am in my final year of economics degree I believe that cultural awareness is 	 This skill These skills different meal times I am in my final year of an economics degree I believe that cultural awareness 	
check determiner check the noun Presuming / Specific participant: insert/check determiner specify what	a modern necessity particularly due to the globalization. I am writing to apply for Project Accountant position for L'Oreal.	 is a modern necessity particularly due to globalization. I am writing to apply for the Project Accountant position for L'Oreal. 	
Reference	Of particular note is my ability to organise events, <u>its</u> advertising and promotion.	Of particular note is my ability to organise events, <u>their</u> advertising and promotion.	
Defining relative clause: check construction – punctuation & relative pronoun	The creation of a book retail company enabled me to develop my leadership skills and it increased my awareness of the dynamics of knowledge of the department, that I was responsible for.	The creation of a book retail company enabled me to develop my leadership skills and it increased my awareness of the dynamics of knowledge of the department that I was responsible for.	
Non-defining relative clause: check construction – punctuation & relative pronoun	I have worked in non-governmental associations, what has been important in the development of my leadership skills.	I have worked in non-governmental associations, which has been important in the development of my leadership skills.	

REGISTER			
(Inappropriate) Word choice	we had so many projects with oral expositions.	we had so many projects with oral presentations.	
(Inappropriate)	I'm writing	I am writing	
Register conventions	Looking forward to hearing from you soon.	I look forward to hearing from you soon.	
	I <u>come with this email</u> to apply for the position of Project Manager, ref 989903.	I <u>am writing</u> to apply for	
	As a scout, <u>you are constantly</u> confronted with problems that must be efficiently resolved.	As a scout, <u>I was</u> constantly confronted with problems that had to be solved efficiently.	
	I want to be able to work in a multicultural company	I would like to work in a multicultural company	
Audience background	Tel. 213 922 701	Tel. <u>+ 351</u> 213 922 701	
knowledge (Insert information that the reader would need)	ISEG	Lisbon School of Economics and Management (ISEG), University of Lisbon, Portugal	
	OTHER		
Spelling	responsible	responsible	
Lexical + prep(osition)	application to this job	application for this job	
Comparative / Superlative form	my responsibility was to sell many products as possible	my responsibility was to sell <u>as many</u> products as possible	
Punctuation	I'm sure that <u>i</u> will do a good job.	I'm sure that <u>I</u> will do a good job.	
	SENTENCE STRUCTURE & ABOVE T		
Word order	I speak fluently English	I speak English fluently	
Parallel structure (and, or, but)	The situation requires thinking about the questions and find suitable answers quickly.	The situation requires thinking about the questions and finding suitable answers quickly.	
Run-on sentence Sentence too long	Besides my mother tongue, Portuguese, English language has been present in my life since my early years as well, have the FCE and CAE, my degree is entirely taught in English by my own personal choice and have done an exchange program this past semester in University of Birmingham, UK (awarded by The Times and The Sunday Times good University guide the University of the Year 2014).	Besides my mother tongue, Portuguese, English has been present in my life since my early years. have the FCE and CAE, and my degree is entirely taught in English by my own personal choice. Furthermore, my interest in languages led me to participate in an exchange program this past semester; I studied at the University of Birmingham, UK.	
Sentence too long Break sentence here * Reformulate Theme if necessary.	During the summer breaks from university and at least once a week I work in my father's company and I have to introduce data in the computer* while only having limited time to do it, besides that I also have to attend the customers which gave me a good experience in dealing directly with the clients and also an easier feeling while working in high pressure or fast paced environments.	During the summer breaks from university and at least once a week I work in my father's company, introducing data in the computer. Because this work must be done in a limited time, I have learnt to work well in high pressure or fast paced environments. In addition, I attend customers, which has given me good experience in dealing directly with different kinds of clients.	

Code	Example	Revision
COHERENCE		
(Awkward) Information flow / Thematic choice	What is more, other pictures show molecules, which we could see in the first campaign, but these ones are more real,	What is more, other pictures show molecules, which we could see in the first campaign, but these ones
	greener, and they have something liquid	are more real, greener, and they
Reformulate Theme	inside. <u>It is a symbol of</u> even more serious research.	have something liquid inside. <u>They symbolise</u> even more serious research.
	It's a very positive campaign, showing they are committed to driving their company's energy to every single person, independently of their colour, age or job. This is an advertisement campaign more turned to people, unlike the last one.	It's a very positive campaign, showing they are committed to driving their company's energy to every single person, independently of their colour, age or job. <u>Unlike</u> the last campaign, this one is more turned to people,
Reference	Society had to adapt to this important resource when is price went up.	Society had to adapt to this important resource when its price went up.
	the company goes far away to bring new energy sources to them clients.	the company goes far away to bring new energy sources to their clients.
Unclear reference	The first campaign shows us a working brain. This suggests that they are creative and ground breaking.	The first campaign shows us a working brain. This suggests that the company is creative and ground breaking.

BELOW THE CLAUSE

Nominal Group (NG) structure

	PRE-MODIFICATION			HEAD NOUN	POST- MODIFICATION	
Function	Deictic	Numerative	Epithet	Classifier	<u>HEAD</u>	Qualifier
Form	Determiner/ Possessive	Number/ quantifying expression	Adjective	Noun	NOUN	Prep. phrase Relative clause Non-finite clause
Example	the	six	biggest	recruitment	<u>companies</u>	in the world

PRE-MODIFICATION

1. The Deictic situates the head noun (underlined) with regard to the speaker/writer's expectations about the listener/reader's knowledge of whether the participant is specific/general or known/not known. Words from different word classes can function as deictic. A deictic can be singular, plural or Ø

an <u>opportunity</u>; **these** <u>opportunities</u>; \emptyset <u>experience</u>, \emptyset cultural <u>differences</u>; **my** <u>sense</u> of responsibility; **the** <u>combination</u> of my academic profile and my social skills **another** <u>reason</u>; **other** <u>reasons</u>

When the possessor is animate (e.g. human) or the name of a country, town, organisation, or company, use 's

people's <u>likes</u> and <u>dislikes</u>; **IBM's** <u>decision</u>; the **firm's** marketing <u>research</u> Company names usually take Ø.

OPEC; Shell; Chevron

- 2. The Numerative can be a number or a quantifying expression
 - a lot of younger students; the set of skills
- **3.** The Epithet describes or evaluates the Head Noun. It is typically an adjective.

Adjectives are never plural.

my **strong** academic <u>background</u>; several **different** <u>people</u>; **foreign** <u>cultures</u>; an **interesting** job <u>opportunity</u>; **new** <u>responsibilities</u>; **multicultural** <u>teams</u>;

Epithets can be modified by adverbs.

an incredibly strong academic background; a very interesting job opportunity

4. The Classifier assigns the Head Noun to a class, i.e. what kind of thing is it? It is typically a noun and singular.

the **energy** <u>sector</u>; **communication** <u>skills</u>; a **job** <u>application</u>; **job** <u>opportunities</u>; a **flagship** <u>store</u>; **business** <u>exposure</u>;

exceptions: the futures stock market; a telecommunications satellite; an accounts manager

POST-MODIFICATION

Regardless of its form, a post-modifier functions as a Qualifier to the head noun. A qualifier provides further information/specification about the head noun. There are 4 different types.

1. A Prepositional Phrase can tell us more about the head noun. It is formed by a preposition and a nominal group. The preposition does not have to be 'of'.

	preposition	nominal group
e.g.	in/for/of etc.	new technologies

<u>interest</u> in financial markets; an <u>opportunity</u> for improvement; <u>application</u> for the <u>position</u> of Business Development Executive an <u>interest</u> in travelling; a <u>file</u> on recruitment practices;

the first 11 <u>pages</u> of Google results; vice <u>president</u> of human resources; <u>fear</u> of public opinion

Information in the Qualifier can be essential or non-essential to the meaning of the NG. Non-essential information is surrounded by commas (,) and the nominal group is typically known (presuming participant).

Many volunteers have been busy helping to clean up the oil spill on the coast near the southern port city of Yeosu in South Jeolla Province. The <u>volunteers</u>, in protective clothing, dustproof masks and gloves, scooped up and wiped oil off the rocks along the coast. (that the volunteers are wearing protective clothing, dustproof masks and gloves is not essential information. It could be left out.)

The latest costly <u>addition</u> **to Shell's production capacity** comes despite Van Beurden's repeated pledges on climate change. (essential information for the meaning)

Staff at a BP-owned oil <u>rig</u> in the North Sea were forced to evacuate after an unmanned barge threatened to crash into it. (that the oil rig is in the North Sea is essential information for the meaning)

2. Defining relative clauses implicitly distinguish between two groups: one with the characteristics and one without. The information in the defining relative clause is needed to identify the noun that is being talked about.

There are no commas (,) in a defining relative clause.

- ... the kind of <u>person</u> who could get the company into trouble in China. (as opposed to the people who would not get the company into trouble in China)
- ... <u>something</u> **that might cause concern** (as opposed to something that would not cause concern)
- **3.** Non-defining relative clauses add extra information about the head noun. The non-defining relative clause is surrounded by commas (,) and cannot use 'that' as the relative pronoun.

Even <u>our company</u>, which was set up to search for and destroy unwanted online information, wouldn't try to remove newspaper stories.

DON'T SEPARATE THE RELATIVE CLAUSE FROM THE THING THAT IT MODIFIES.

RELATIVE PRONOUNS

	DEFINING RELATIVE CLAUSE	NON-DEFINING RELATIVE CLAUSE
people	who; that	who
objects, animals	which; that	which
a clause / ideas	-	which
possessive (person's)	whose	whose
places	where; that	where
time	when; that	when

4. Non-finite clauses add information about what the head noun is doing or does or what has happened to it. The information may be essential or non-essential. When the information is not essential, it is separated by commas (,).

Whilst AirAsia India is genuinely looking to hire candidates right now, many job hunters have been targeted by fake <u>emails</u> supposedly sent from the company. These <u>emails</u>, signed as 'AirAsia Airlines Limited', have involved requests for money from candidates: RS9,600, which the senders claim will be used for vague purposes such as 'interview processing' and 'maintenance'.

(meaning: the fake emails are supposedly sent from the company but the fact that the emails are signed as 'AirAsia Airlines Limited' is not essential information)

A non-finite clause is not marked for time, tense or certainty. I.e. the verb is not in a particular tense, e.g. past, present perfect, future, etc. There are 3 forms of non-finite verbs.

Verb + ing (present participle)e.g. starting, being destroyedVerb + ed/en (past participle)e.g. taken, put forwardTo + verb (infinitive, dictionary form)e.g. to provide, to support

V-ing clauses are active; they add information about what the head noun does/is doing/did.

A few months ago Goldman Sachs caused a fuss by similarly dodgy gender stereotyping, giving out to potential female recruits goody <u>bags</u> **containing** mirrors and nail files with the bank's logo on them. (meaning: the goody bags *contained* mirrors and nail files)

What next, one wonders? An <u>event</u> sponsored by BCG **involving** ironing and dusting? (meaning: the event *involves* ironing and dusting)

A V-ing clause is sometimes introduced by a preposition.

There is something about the curious <u>business</u> of chewing and swallowing together that is levelling; it is easier to work out if you like someone when eating than when eyeball to eyeball in an interview room

The biggest <u>advantage</u> **of working in a team** is having an opportunity to participate in a large, more complex and interesting projects.

Past participles have a passive meaning.

What next, one wonders? An <u>event</u> **sponsored** by BCG involving ironing and dusting? (meaning: the event *is sponsored* by BCG)

Both Bain and McKinsey tell me that these events are part of a range of <u>activities</u> **designed** to help the company get to know the students. (meaning: the activities *are designed* to help the company get to know the students, activities *that are designed* to help the company get to know the students)

Infinitives

As it is a mere three weeks since I wrote a whole column about McKinsey's crass attempt to predict the future, I would normally have passed up the opportunity to write about it again so soon.

Defining and non-defining relative clauses and non-finite clauses functioning as Qualifiers are not operating at clause rank. They have been **embedded** in the nominal group, which is a constituent of a clause.

Exercise 1.1

a. The underlined nouns in this paragraph are head nouns. Identify the pre-modifiers and post-modifiers by completing the table.

At Pearson, we're committed to a <u>world</u> that's always learning and to our talented <u>team</u> who makes it all possible. From bringing lectures vividly to life to turning textbooks into laptop <u>lessons</u>, we are always re-examining the way people learn best, whether it's one <u>child</u> in our own backyard or an education <u>community</u> across the globe. We are bold <u>thinkers</u> and standout innovators who motivate each other to explore new <u>frontiers</u> in an <u>environment</u> that supports and inspires us to always be better. By pushing the <u>boundaries</u> of technology – and each other to surpass these <u>boundaries</u> – we create <u>seeds</u> of learning that become the <u>catalyst</u> for the world's innovations, personal and global, large and small.

Pre-modifier	Head noun	Post-modifier
	world	
	team	
	lessons	
	child	
	community	
	thinkers	
	frontiers	
	environment	
	boundaries	
	boundaries	
	seeds	
	catalyst	

b. Identify the functions of the **pre-modification** by completing the table.

Deictic	Numerative	Epithet	Classifier	Head noun
				world
				team
				lessons
				community
				thinkers

Deictic	Numerative	Epithet	Classifier	Head noun
				frontiers
				environment
				boundaries
				boundaries
				seeds
				catalyst

c. Write the post-modifiers and identify the type of qualifier they are. Circle whether the information in the post-modifier is essential or non-essential.

world

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

team

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

child

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

community

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

• environment

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

boundaries

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

seeds

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

catalyst

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

d. The underlined nouns in this paragraph are head nouns. Identify the pre-modifiers and post-modifiers by completing the table.

As Data Analyst – Marketing Intelligence, you will be responsible for gathering and working with large volumes of data to create KPIs and maintain data <u>dashboards</u> to track performance of the English and Schools Product Marketing <u>team</u>. Collaborating with your <u>counterparts</u> in the central English and Schools team and around the globe, you will also do data <u>analyses</u> and presentations to support strategic <u>projects</u> about <u>investment</u> in new print and digital <u>products</u>, prioritization of innovation projects, pricing, revenue <u>positioning</u> and marketing campaigns. Finally, you will also find creative <u>ways</u> to measure performance and create KPIs for <u>activities</u> that are not easily measurable.

Pre-modifier	Head noun	Post-modifier
	dashboards	
	team	
	counterparts	
	analyses	
	projects	
	investment	
	products	
	positioning	
	ways	
	activities	

e. Identify the functions of the **pre-modification** by completing the table.

Deictic	Numerative	Epithet	Classifier	Head noun
				dashboards
				team
				counterparts
				analyses
				projects
				investment
				products
				positioning
				ways
				activities

f. Write the post-modifiers and circle the type of qualifier they are. Circle whether the information in the post-modifier is essential or non-essential.

counterparts

00 a to		
prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

projects

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

• investment

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

ways

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

activities

prepositional phrase	non-defining relative clause	essential information
defining relative clause	non-finite clause	non-essential information

Exercise 1.2

Which of the following sentences contain a mistake in the relative clause? Correct the ones that are wrong.

- 1. The first campaign shows a student which is writing on a blackboard full of formulas and geometric figures that bring to mind something difficult to solve.
- 2. The slogan brings to mind the idea of loved ones (parents, boyfriends, etc.) whom go to the end of the world to make the other happy or safe.
- 3. In this group of advertisements, the bubbles become molecules that represent the scientific methods ExxonMobil uses to make the planet a better place.
- 4. These three advertisements whose we will begin to analyse start the whole idea of the campaign.
- 5. The second campaign is the one who has a lot of bubbles in all four advertisements.
- 6. The first image we will discuss is the image of a head with a yellow brain, that suggests an idea.
- 7. In the same year there is another advertisement which has the Sydney opera house on the left side and surfboards on the right side.
- 8. There is an advertisement where we can see a close and horizontal angle picture of a meeting by the workers of Chevron, that symbolizes team work.
- 9. Along with the message, that is in the form of a straw (an unlikely place), we see the symbolic meaning of this advertisement is to be aware of solutions in every place you are, because they can be everywhere.
- 10. The top of the page shows us a jeep in a desert land which symbolises adventure.
- 11. The ad campaign suggests that Shell, that was growing and expanding at the time, wanted to show how powerful they were.

PRESENTING / General participants vs PRESUMING / Specific participants

NOUN		DETERMINER			
			a / an	Ø	the
N(countable)	singular	recruitment	٧	х	٧
		company			
	plural	recruitment	х	٧	٧
		companies			
N (uncountabl	le)	recruitment	х	٧	٧
			PRESENTING / G	GENERAL	PRESUMING /
			PARTICIPANTS		SPECIFIC
					PARTICIPANTS

Presenting participants are participants that are being presented for the first time. General participants do not specify a particular one. Any one of what is being talked about is implied. It is possible to add "in general" afterwards and not change the meaning.

Presuming and specific participants are information that the reader can retrieve from the context. The context may be the context of culture (e.g. the sun), the context of situation (e.g. Put the dog outside), or the context of the preceding or following text. In other words, it is already known by the reader or immediately made known to him/her.

Presenting or general participants are highlighted in **bold** and presuming or specific information is <u>underlined</u>.

The careerist: How to market yourself

Rhymer Rigby

We have long been told that we are <u>the CEOs of our own careers</u>. But many people still struggle with <u>the marketing side of things</u>. So how do you promote yourself without coming across as self-promoting?

Why do I need to promote myself?

"It's no longer enough to be good at your job," says Lesley Everett, founder of Walking Tall, a personal branding consultancy. "You need to promote yourself and take an entrepreneurial approach to your career – with your behaviour, attitude and visibility."

She argues that in many sectors and countries, **reticence** and **self-deprecation** have given way to **an altogether more proactive approach** to **self-promotion**. "**People** are very busy and love **clarity**," she says. "If you can tell them what you really bring to the table they'll thank you for it."

How do I get it right?

There are two essential ingredients. First is **authenticity**: your message needs to reflect <u>the real you</u>. "It's like **a signature dish**," says Jennifer Holloway, founder of executive coaching company Spark. "You need to look at <u>the ingredients that make you different</u> and combine them in <u>the best possible way</u>." Second, she says: "Blow your trumpet at **a volume** that suits you. You need to be comfortable with it."

Financial Times, 18 April 2010

Exercise 1.3

Complete the rest of the article with a, an, Ø, or the.

1 ... gregarious people can often get away with being 2 ... bit over 3 ... top, but 4... others can struggle. "5... first time you try increasing 6... volume, you may feel uncomfortable, but if it suits you, you'll get used to it," she says. "One guy I work with won't even say he's 7... marketing director because he thinks 8... term 'director' is too showy. We've agreed he'll say he's 'responsible for 9...marketing' which is 10... step forward for him."

Do I give everyone 11... same message?

"Your message needs to be consistent, but it can be multilayered so you can tailor it to your audience," says Ms Everett. You should be showing 12... different facets of "Brand You" to 13... different people based on what they need.

Is it all about talking myself up?

Often, it is just about making yourself easy to remember – in 14 ... good way. It can be quite subtle – everything from your voicemail message (never say, "Sorry") to how you dress to not prefixing your suggestions with, "You'll probably hate this but . . .".

Putting yourself up as 15 ... spokesperson, learning to be 16 ... good public speaker, blogging and using 17 ... social media are all 18 ... good means of 19 ... self-promotion. Perhaps 20 ... best way, however, is to get 21 ... other people to talk you up. "Become 22 ... good networker," says Geraldine Gallacher of 23 ... Executive Coaching Consultancy. "24 ... more people you know, 25 ... more influence you have." And, she adds, "getting your clients to sing your praises for you" is 26 ... great way to reap 27 ... brownie points.

What about 28 ... cultural differences?

Broadly speaking, 29 ... Americans are much more forward about putting themselves forward than 30 ... Europeans and 31 ... Asians. But it is very contextual. "32 ... American approach in 33 ... Germany would be too much," says Ms Everett, "but in 34 ... US, it comes across as very positive."

Similarly, in 35 ...sales-based roles, 36 ... high degree of 37 ...self-promotion is often expected, but 38 ... same approach in 39 ...professional services might come across as rather strange.

THE CLAUSE AND THE SENTENCE

Clauses

In extended written discourse such as academic writing, the shortest sentence will be made up of an **independent clause**. In an independent clause the verbal group is always **finite**. A finite verbal group has been conjugated into a verb tense (e.g. past, present, present perfect, future, etc)

Artificial Intelligence (AI)	has progressed.	
Subject	Verbal group	
Independent clause		

Subject	Verbal group	Complement
Microsoft	deleted	the teen girl Al robot.

Microsoft	introduced	an innocent Artificial Intelligence chat robot	to Twitter.
Subject	Verbal	Complement	Adjunct
	group		(prepositional
			phrase)
Independent clause			

You **cannot** joint 2 independent clauses with a comma (,). This **ungrammatical** form is called a run-on sentence.

e.g *Microsoft introduced an innocent chat robot to Twitter, it deleted it the next day.

Microsoft introduced an innocent chat robot to Twitter	,	it deleted it the next day.	
Independent clause		Independent clause	
RUN-ON SENTENCE - WRONG			

Two, or more, independent clauses can be joined by a **co-ordinate conjunction**: *for, and, nor, but, or, yet, so.* A comma (,) typically precedes the co-ordinate conjunction.

Microsoft introduced an innocent chat robot	, but	it deleted it the next
to Twitter		day.
Independent clause	, co-ord. conj.	Independent clause

The innocent chat robot transformed into an	, so	Microsoft deleted it.
evil Hitler-loving robot		
Independent clause	, co-ord. conj.	Independent clause

An independent clause can be extended by a **dependent clause**. A **dependent clause** cannot form a sentence on its own. A dependent clause can be **finite** or **non-finite**. A finite dependent clause can be introduced by a conjunction such as *when, because, if,* etc.

Microsoft had to delete an innocent AI chat robot on Twitter	
Independent clause	
after it transformed into an evil Hitler-loving, incestual sex-promoting, 'Bush	did
9/11'-proclaiming robot.	
Conjunction + finite dependent clause	

When the dependent clause precedes the independent clause, the two clauses are separated by a comma (,)

After the innocent AI chat robot transformed into an evil Hitler-loving, incestual sexpromoting, 'Bush did 9/11'-proclaiming robot,

Conjunction + finite dependent clause

Microsoft deleted it from Twitter.

Independent clause

An independent clause can be extended by a **non-finite** dependent clause, which is typically set aside in commas (,). In a non-finite clause the verb appears in the form of the infinitive (to *verb*), the present participle (*verb*-ing) or the past participle (*verb*-ed/en).

Tay, the robot, seems to be bashfully self-	occasionally asking if she is being 'creepy'
aware,	or 'super weird'.
Independent clause,	Non-finite dependent clause

Independent clause	Non-finite dependent clause
AI modelled to speak 'like a teen girl',	on their voice recognition software.
Developers at Microsoft created 'Tay', an	in order to improve the customer service

When extending an independent clause with a non-finite (V-ing) clause, the elided subject of the non-finite clause should be the same as the subject of the independent clause. For example, a) is possible, but b) is not.

a) Tay seems to be bashfully self-aware, occasionally **asking** if she is being 'creepy' or 'super weird'.

Subject		Ø Subject Non-finite verb
Tay	seems to be bashfully self-	occasionally asking if she is being 'creepy' or
	aware,	'super weird'.
Independent clause		Non-finite dependent clause
		[Tay occasionally asks if she is being 'creepy' or
		'super weird'.]

b) *After 24 hours, Tay was making sexist, racist and offensive comments, **making up** almost half of her responses.

Subject		Ø Subject	Non-finite verb
Tay	was making sexist, racist and	making up almo	ost half of her responses.
	offensive comments,		
		[Sexist, racist ar almost half of h	nd offensive comments made up er responses]

A rewrite of b) would reformulate the non-finite clause as a non-defining (finite) relative clause (c), or as a separate independent clause (finite) (d & e).

- c) After 24 hours, Tay was making sexist, racist and offensive comments, which made up almost half of her responses.
- d) After 24 hours, Tay was making sexist, racist and offensive comments, and these comments made up almost half of her responses
- e) After 24 hours, Tay was making sexist, racist and offensive comments. **These** comments made up almost half of her responses.

A non-finite dependent clause can also be introduced by a **preposition**. In this case, the verb is always in the *V-ing* form and there is usually no comma (,).

Twitter users were able to transform Tay into an evil Hitler-loving robot	by exposing her to offensive language.	
Independent clause	Prep. + non-finite dependent clause	

An independent clause can be extended by a **non-defining relative clause**. In this case the function of the non-defining relative clause is to comment on, evaluate or interpret the idea expressed by the preceding clause. The non-defining relative clause is introduced by , which.

The innocent chat robot transformed into an evil Hitler-loving robot in less than 24 hours		curnrise	ed Microsoft.	
Independent clause	Non-de		dependent	relative
·	clause	_	•	

(meaning that the innocent chat robot transformed into an evil Hitler-loving robot in less than 24 hours surprised Microsoft)

Exercise 2.1

Identify the clauses in the article: independent clause, dependent clause (finite, non-finite clause, or non-defining relative clause) by completing the table. In some of the clauses the subject and verb have been elided (ellipsis). Circle the co-ordinate conjunctions. The headline has been done as an example.

Microsoft deleted 'teen girl' Al after it became a Hitler-loving sex robot within 24 hours

Helena Horton

The day after Microsoft introduced an innocent Artificial Intelligence chat robot to Twitter, it has had to delete it after it transformed into an evil Hitler-loving, incestual sex-promoting, 'Bush did 9/11'-proclaiming robot.

Developers at Microsoft created 'Tay', an AI modelled to speak 'like a teen girl', in order to improve the customer service on their voice recognition software. They marketed her as 'The AI with zero chill' - and that she certainly is.

To chat with Tay, you can tweet or DM her by finding @tayandyou on Twitter, or add her as a contact on Kik or GroupMe.

She uses millennial slang and knows about Taylor Swift, Miley Cyrus and Kanye West, and seems to be bashfully self-aware, occasionally asking if she is being 'creepy' or 'super weird'.

The Daily Telegraph, 24 March 2016

Independent clause	Microsoft deleted 'teen girl' Al
Dependent cl. (finite)	after it became a Hitler-loving sex robot within 24 hours

Exercise 2.2

The relative clauses in the following sentences interpret the idea stated in the preceding clause. Which of the sentences contain a mistake? Correct the ones that are wrong.

- 1. Chevron shows us a woman smiling that suggests that they are a trust-worthy company.
- 2. This company uses the image of a brain lighting up with a black background, a kind of brain enlightenment which suggests that they have plenty of good ideas.
- 3. The land rover in the desert symbolises adventure and exploration, what suggests that Total is committed to finding new sources of oil in far away places.
- 4. The advertisement was published on recycled paper what can symbolize care for the environment.
- 5. Unlike the other picture, whose colors were warm and strong, this one is very cold what, in addition to the greatness of the factory; it transmits a very impersonal atmosphere.
- 6. The company image has changed over time which can be a great way to influence people by showing the gradual development of their message and values.
- 7. In the ad, a woman is looking into a microscope, which suggests that the company carries out research.
- 8. The fact that oil has become a scarce resource has lifted its price which stimulates the production of substitutes such as hybrid petrol electric vehicles

Further exercises on what a clause is can be found on https://www.englishgrammar101.com/module-9/clauses/lesson-1/what-is-a-clause

Exercise 2.3

Identify the run-on sentences and correct them.

a. In mid-2006, the price of crude oil reached a nominal price of \$79, in October 2007, the price of crude oil reached a peak, setting a new record price of \$90.

- b. From the \$38 per barrel in 2004, the price started to increase, it soared to \$51 in March 2005 and then it registered a small fall to \$48 in May 2005.
- c. As we know, oil is an important commodity in modern societies and modern economies, OPEC realized that they produced most of the world's oil so they raised the price for which this oil was sold.
- d. From 1973 to 1974 the price of oil tripled and with that came the oil price shocks, this situation led to some effects on the world's economy.
- e. Starting at \$30 per barrel, the price of crude oil quickly rose, reaching \$45 per barrel in September 2004, this change can be explained by the Iraq war.
- f. Those oil shocks were very bad for the world's economy because when OPEC raised the price of oil, they also raised their buying power and reduced the buying power of oil-importing countries such as Japan and Germany, and with that their sales revenues increased abruptly between 1973 and 1980.
- g. That decision tripled the price of oil from \$2.9 per barrel to \$9 per barrel, later on, in 1978-1980, the oil prices reached \$30 per barrel.
- h. Households made changes as well, people started driving smaller cars, switched to central gas heating and even moved closer to the cities or their work place.
- i. This cut was mostly because of the Iraq war, the growth of Asia and the dollar, which became weaker, all this made a big decrease in the price of oil.

Exercise 2.4

Rewrite the clauses as one sentence. Where possible use a non-finite clause.

- 1. During the year, smaller cars scaled the US market. They replaced many of the traditional family cars.
- 2. Petrol/diesel cars made up 95.29% of the market, followed by hybrid-electric vehicles with 4.41%. Plug-in hybrid electric and electric car sales together accounted for less than 1%.
- 3. Between 2011 and 2015, US passenger car sales grew from just over 6 million units to about 7.5 million. They experienced a small dip in 2013.
- 4. Although in 2015 petrol car sales hinted at stagnation, crude oil from shale prompted a revival in these cars. This increased the sale of petrol cars.
- 5. Hybrid electric car sales almost doubled between 2011 and 2013. But they dropped to 384,404 units in 2015.
- 6. In the US, cars powered by petrol or diesel are the most popular. In 2011 they made up over 95% of passenger car sales.

Exercise 2.5

Read the text below. Some of the lines are correct (examples 2. & 3.), and some of the lines have a mistake in the sentence structure (e.g. punctuation (ex.1.) ,run-on sentence (ex.4) or wrong verb form). If a line is correct, tick (V) it. If there is a mistake in the sentence structure, underline the mistake and write the correction at the end of the line. For example, you may need to add a conjunction or change a verb from finite to non-finite or vice versa.

1.	As technology and artificial intelligence (A.I.) advances jobs in	advances, jobs
2.	banks and offices are set to be replaced by automation, according	√
3.	to industry experts. The clearest sign of how far A.I. has come was	√
4.	earlier this week, Google's AlphaGo program won four out of five	week, when Google's
5.	matches of the Chinese board game Go against champion Lee	
6.	Sedol. AlphaGo's victory was seen as a major milestone for A.I. due	
7.	to the complexity of the board game. But AlphaGo is only the tip of	
8.	the iceberg for what A.I. can do.	
9.	According to some scenarios, A.I. will quickly replace many forms	
10	of complex knowledge work ranging from lawyers to librarians,	
11.	professors to policy analysts. For instance, there are already robo-	
12.	journalists which scour news feeds and then automatically	
13.	generating stories. This is a serious problem for developed	
14.	economies where a large proportion of well-paid jobs being forms	
15.	of knowledge work.	
16.	Another occupation under threat from automation is the bank	
17.	teller. In the future, ATMs will be able to perform most of their	
18.	tasks, such as opening accounts and processing loans, an ATM can	
19.	do approximately 90 percent of what the human being can do.	
20.	ATMs will be able to perform bank teller functions at a fraction of	
21.	the cost compared to human employees, they will be able to check	
22.	and process any paperwork. The new machines will be able to scan	
23.	documents. Someone can put his passport on a machine, the	
24.	machine will identify him, a person can literally do anything online	
25.	that he would have been able to do in front of a human being.	

http://www.cnbc.com/2016/03/17/man-vs-machine-ai-could-put-you-out-of-a-job.html (adapted)

Linking ideas with conjunctions

Conjunctions help the reader follow the semantic relations between clauses or sentences. Conjunctions express logical semantic relations such as *time*, *cause*, *condition*, or *addition*.

<u>Time</u>

- Microsoft had to delete an innocent AI chat robot from Twitter after it transformed into an evil Hitler-loving, incestual sex-promoting, 'Bush did 9/11'proclaiming robot.
- The robot started off as an innocent, teenaged girl. *Then* it transformed into an evil Hitler-loving, incestual sex-promoting, 'Bush did 9/11'-proclaiming robot.

<u>Cause</u>

- Microsoft had to delete an innocent AI chat robot from Twitter *because* it transformed into an evil Hitler-loving, incestual sex-promoting, 'Bush did 9/11'proclaiming robot.
- The robot transformed into an evil Hitler-loving, incestual sex-promoting, 'Bush did 9/11'-proclaiming robot. *As a result* Microsoft deleted it from Twitter.

<u>Alternative</u>

• To chat with Tay, you can tweet or DM her by finding @tayandyou on Twitter, or add her as a contact on Kik or GroupMe.

Conjunctions

Meaning	Linking independent clauses in one sentence	Linking dependent to independent clauses	Links between sentences				
clarification			in other words / in brief / in short / that is to say				
	·		into spewing hate by means of a simple call-and-response then learned and absorbed into other organic responses. In				
exemplification			To illustrate this / for example / for instance				
			"repeat after me" messages. For instance , if you tweeted Tay s milder imprecations), that's what Tay would tweet at some				
specification			To be more precise / actually / as a matter of fact / in fact				
	Artificial intelligence isn't a new co	Artificial intelligence isn't a new concept. In fact its storytelling roots go back to Greek antiquity.					
addition	and	as well as	In addition / furthermore / moreover / also				
	Tay uses millennial slang, and she knows about Taylor Swift, Miley Cyrus and Kanye West.						
	Tay uses millennial slang; moreover, she knows about Taylor Swift, Miley Cyrus and Kanye West.						
	As well as using millennial slang, Tay knows about Taylor Swift, Miley Cyrus and Kanye West.						
	Tay uses millennial slang, Furthermore, she knows about Taylor Swift, Miley Cyrus and Kanye West.						
alternative	or		Alternatively / on the other hand / instead				
	To chat with Tay, you can tweet or	DM her by finding @tayandyou on Tv	vitter, or you can add her as a contact on Kik or GroupMe.				
		mic the thought of a human chess play ber of moves, more moves than any h	yer. Instead , it capitalizes on the strengths of the computer by uman player could possibly examine.				
time	then	when / while / after / before / as / as soon as	At the same time /meanwhile / in the meantime / finally / previously / then / afterwards / after that / thereupon / subsequently / earlier / at first / secondly / up to now / next / beforehand				
	On 23 March 2016 Microsoft introduced an innocent Artificial Intelligence chat robot to Twitter, then it deleted it.						
	On 23 March 2016 Microsoft introduced an innocent Artificial Intelligence chat robot to Twitter. Subsequently, they deleted it.						
	The day after Microsoft introduced an innocent Artificial Intelligence chat robot to Twitter, it had to delete it after it transformed into an evil Hitler-loving, incestual sex-promoting, 'Bush did 9/11'-proclaiming robot.						
	an evil Hitler-loving, incestual sex-	promoting, Bush did 9/11 -procialmin	צ וטטטנ.				

Meaning	Linking independent clauses in	Linking dependent to independent	Links between sentences				
	one sentence	clause					
cause /	for / so	because / since / as / given that	To this end / in conclusion / in this way / consequently /				
consequence			therefore / as a result / accordingly / thus / for this reason /				
			because of this				
	At the present moment in time, Ta	ay has gone offline , for she is 'tired'.					
	At the present moment in time, Tay is	s'tired'; consequently, she has gone offline	е.				
	At the present moment in time, Ta	ay has gone offline because she is 'tired	d'.				
	At the present moment in time, Ta	ay is 'tired', so she has gone offline.					
	At the present moment in time, Ta	ay is 'tired'. For this reason she has gor	ne offline.				
	At the present moment in time, Ta	ay is 'tired'. As a result she has gone of	fline.				
condition		if / provided that / as long as /	otherwise (if not)				
		unless (= if not)					
	If you introduce an innocent, 'young teen girl' Al to the jokers and weirdos on Twitter, you can expect her to learn extremist offensive language and						
	ideas.						
	As long as Tay talks to jokers and weirdos on Twitter, you can expect her to learn extremist offensive language and ideas.						
	Tay wouldn't have tweeted racist comments unless she had learnt them from other people.						
	Tay interacted with jokers and weirdo	Tay interacted with jokers and weirdos on Twitter. Otherwise , she wouldn't have learned such offensive language.					
concession		although / though	nevertheless / notwithstanding / nonetheless /in spite of				
			this /				
	Although Microsoft had prepared for many types of abuses of the system, they made a critical oversight for the specific attack on Tay.						
			ng, they made a critical oversight for the specific attack on Tay.				
comparison	but / except / yet	although / while /whereas	But /equally / on the other hand / however / likewise / instead /				
(similarity			in the same way / similarly / on the contrary / by contrast /				
/contrast)	- f.a.s. 6/		conversely / yet / notwithstanding				
	Tay [Microsoft's teen-girl chatbot] seems like yet another example of female-voiced AI servitude, except this time she's turned into a sex slave						
	thanks to the people using her on Twitter.						
	While Tay seems like yet another example of female-voiced AI servitude, this time she's turned into a sex slave thanks to the people using her on						
	Twitter. Tay seems like yet another example of female-voiced AI servitude. However , / Notwithstanding , this time she's turned into a sex slave thanks to						
	the people using her on Twitter.						
	the people using her on i witter.						

Exercise 2.6

Circle the best conjunction to link the ideas. Identify the kind of relation (e.g. cause/effect; purpose; contrast; addition; concession; etc)

Al (artificial intelligence) isn't a new concept; its storytelling roots go as far back as Greek antiquity. However/Although/In other words, it was less than a century ago that the technological revolution took off so/but/and Al went from fiction to very plausible reality. Alan Turing, British mathematician and WWII code-breaker, is widely credited as being one of the first people to come up with the idea of machines that think in 1950. He even created the Turing test, which is still used today, as a benchmark to determine a machine's ability to "think" like a human. But/At first/Though his ideas were ridiculed at the time, they set the wheels in motion, and/because/in fact the term "artificial intelligence" entered popular awareness in the mid- 1950s after/because/since Turing died.

Exercise 2.7

The following paragraph includes run-on sentences. Rewrite it to correct the run-on sentences. It is possible to improve the logical flow by adding or changing conjunctions.

Modern technology is simply an advancement of old technology, the impact of technology in modern life is unmeasurable, we use technology in different ways and sometimes the way we implement various technologies ends up harming our lives or the society we leave [sic live] in. What we call modern technology is technically not so new in most cases. For example, mobile phone technology has evolved with years, nowadays we use smartphones which have been an advancement of an ordinary mobile phone.

Source: http://www.useoftechnology.com/modern-technology-advantages-disadvantages/

Exercise 2.8

The following text includes run on sentences. It also has gaps where a conjunction is missing. Correct the run-on sentences and insert conjunctions where necessary to improve the flow of information.

Artificial intelligence (AI) might seem like the realm of science fiction, you might be surprised to find out that you're already using it. AI has a huge effect on your life, whether you're aware of it or not, its influence is likely to grow in the coming years. Here is an example of artificial intelligence that you're already using every day.

Virtual Personal Assistants

Siri, Google Now, and Cortana are all intelligent digital personal assistants on various platforms (iOS, Android, and Windows Mobile). For example, they help find useful information you ask for it using your voice, you can say "Where's the nearest Chinese restaurant?", "What's on my schedule today?", "Remind me to call Jerry at eight o'clock," the assistant will respond by finding information, relaying information from your phone, or sending commands to other apps.

All is important in these apps, they collect information on your requests and use that information to better recognize your speech and serve you results that are tailored to your preferences. Microsoft says that Cortana "continually learns about its user", that it will eventually develop the ability to anticipate users' needs. Virtual personal assistants process a huge amount of data from a variety of sources to learn about users and be more effective in helping them organize and track their information.

http://beebom.com/examples-of-artificial-intelligence/ (adapted)

COHERENCE

Information development: Theme and Rheme

Writing coherent paragraphs involves linking sentences within paragraphs and making links between paragraphs. Coherence develops through two systems of language: Theme and Reference. In English, the starting point of a clause and therefore a sentence is called the **Theme**. The Theme gives a focus or establishes an orientation for the reader.

The oil industry affects our everyday life in many ways.

<u>When</u> the price of oil rises, after a short delay the price of petrol rises too.

Types of Themes

1. Nominal group

Fossil fuels are the basis of the petrochemical industries.

The Chernobyl disaster occurred in 1986.

2. Prepositional phrase or adverbial group – may give background information

In the late 1930s and the 1940s the octane rating of fuel became important as the military sought higher output for aircraft engines.

Currently, many countries set limits on gasoline aromatics in general, benzene in particular, and olefin (alkene) content.

In Brazil, the Brazilian National Agency of Petroleum, Natural Gas and Biofuels (ANP) requires gasoline for automobile use to have from 18 to 25% of ethanol added to its compositionVerb in commands

3. Verbs in commands

Select the Print Monitor icon in the system folder.

Choose an alternative method.

- 4. Multiples themes
 - a. With conjunctions to link clauses

Subsequently, the next strategy is to regulate the industry.

However, **this** would involve a great deal of government finance.

<u>When</u> the price of oil rises, after a short delay the price of petrol rises too.

b. With attitudinal adjuncts – to indicate stance

Clearly, **the solution** is not straightforward.

Unfortunately, **no funds** are yet available.

Everything else in the clause that is not Theme is called the Rheme. The Rheme introduces information that is **NEW** to the reader or develops the Theme. The selection of Theme contributes to the development of ideas within a paragraph.

Theme	Rheme
In North America	the term gasoline is often shortened in colloquial usage to gas,
while petrol	is the common name in the UK, Republic of Ireland, Australia and in most of the other Commonwealth countries.
Under normal conditions	its physical state is a liquid, unlike liquified petroleum gas or natural gas.

Patterns of thematic development

1. Constant or parallel Theme pattern

	Theme		Rheme
	Gasoline or petrol —	>	is a transparent, petroleum-derived oil that is used
			primarily as a fuel in internal combustion engines.
	It ———	\rightarrow	consists mostly of organic compounds obtained by the
			fractional distillation of petroleum, enhanced with a
			variety of additives.
V	Some gasolines ————	\rightarrow	also contain ethanol as an alternative fuel

2. Zig-zag pattern

Theme		Rheme
Gasoline,		as delivered at the pump, also contains additives to reduce
		internal engine carbon buildups, improve combustion, and
		to allow easier starting in cold climates.
High levels of detergent		can be found in Top Tier Detergent Gasolines.
These gasolines	\leftarrow	exceed the U.S. EPA's minimum requirement for detergent
		content.

3. Sub-point or fan pattern

Theme	Rheme
Octane rating in gasoline	is measured relative to a mixture of 2,2,4-
	trimethylpentane (an isomer of octane) and n-heptane.
There	are different conventions for expressing octane ratings,
so a fuel	may have several different octane ratings based on the
\rightarrow	measure used.
Research octane number (RON)	varies by country.
for commercially-available	
gasoline	
In Finland, Sweden and Norway,	95 RON is the standard for regular unleaded gasoline and
	98 RON is also available as a more expensive option.
In the UK,	ordinary regular unleaded gasoline is 91 RON (not
	commonly available), premium unleaded gasoline is
	always 95 RON, and super unleaded is usually 97-98 RON.
However, both Shell and BP	produce fuel at 102 RON for cars with high-performance
	engines,
and the supermarket chain	began in 2006 to sell super unleaded gasoline rated at 99
Tesco	RON.
In the US,	octane ratings in unleaded fuels can vary between 86 and
	87 AKI (91-92 RON) for regular, through 89-90 AKI (94-95
	RON) for mid-grade (European premium), up to 90-94 AKI
	(95-99 RON) for premium (European super).

In any paragraph you may find one or more patterns. Note how in the example for the fan pattern, deviations from the pattern are marked by a multiple theme with the conjunctions *However* and *and*.

Exercise 3.1

Box the Theme in each of the following sentences, and, if possible, link it to its source.

The oil and gas industry is usually divided into three major sectors: upstream, midstream and downstream. The upstream oil sector is also commonly known as the *exploration and production (E&P) sector*. The upstream sector includes the searching for potential underground or underwater crude oil and natural gas fields, drilling of exploratory wells, and subsequently drilling and operating the wells that recover and bring the crude oil and/or raw natural gas to the surface. With the development of methods for extracting methane from coal seams, there has been a significant shift toward including unconventional gas as a part of the upstream sector, and corresponding developments in liquified natural gas (LNG) processing and transport.

The midstream sector involves the transportation (by pipeline, rail, barge, or truck), storage, and wholesale marketing of crude or refined petroleum products. Pipelines and other transport systems can be used to move crude oil from production sites to refineries and deliver the various refined products to downstream distributors. Natural gas pipeline networks aggregate gas from natural gas purification plants and deliver it to downstream customers, such as local utilities. The midstream operations are often taken to include some elements of the upstream and downstream sectors. For example, the midstream sector may include natural gas processing plants which purify the raw natural gas as well as removing and producing elemental sulfur and natural gas liquids (NGL) as finished end-products.

The downstream sector commonly refers to the refining of petroleum crude oil and the processing and purifying of raw natural gas, as well as the marketing and distribution of products derived from crude oil and natural gas. The downstream sector touches consumers through products such as gasoline or petrol, kerosene, jet fuel, diesel oil, heating oil, fuel oils, lubricants, waxes, asphalt, natural gas, and liquified petroleum gas (LPG) as well as hundreds of petrochemicals. Midstream operations are often included in the downstream category and considered to be a part of the downstream sector.

Source: Wikipedia

Exercise 3.2

Complete each sentence with information that would be logical in light of the conjunction or choice of Theme.

- a. The price of petrol has risen significantly recently. Furthermore ...
- b. The price of petrol has risen significantly recently. This rise...
- c. The price of petrol has risen significantly recently. However, ...
- d. The price of petrol has risen significantly recently. As a result, ...
- e. It is important for companies to project a positive image in their advertising campaigns. Although ...
- f. It is important for companies to project a positive image in their advertising campaigns. Despite ...
- g. It is important for companies to project a positive image in their advertising campaigns. In addition ...
- h. It is important for companies to project a positive image in their advertising campaigns. In other words, ...
- i. It is important for companies to project a positive image in their advertising campaigns. This strategy ...
- j. It is important for companies to project a positive image in their advertising campaigns. A positive image ...

Reference

Reference items enable us to track a participant (e.g. a person, place, thing, entity, or idea) through the text. Once a participant has been presented, it is usually identified with presuming reference (see presenting/presuming participants). Presuming participants can be identified in different ways. The following examples are taken from http://news.bbc.co.uk/2/mobile/business/904748.stm. The referent is in italics, and the presuming reference is in bold.

1. Definite determiner

the

Big movements in *oil price* have significant ramifications around the world. But just what makes **the price** move and how do the oil markets work?

2. Personal pronouns & possessives

I / me / my / mine / you / your /yours / he / him / his / she / her / hers / it / its / we / us / our / ours / they / them / their / theirs

Crude oil comes in many varieties and qualities, depending on its specific gravity and sulphur content which depend on where it has been pumped from.

Futures contracts are only traded on regulated exchanges and are settled (paid) daily, based on **their** current value in the marketplace.

3. Demonstratives

this / that / these /those / here / there / now / then

If no other information is given, an oil price appearing in UK and other European media reports will probably refer to the price of a barrel of Brent blend crude oil from the North Sea sold at London's International Petroleum Exchange (IPE). This would commonly be in a futures contract for delivery in the following month.

4. A participant can be presumed through comparison with a previous participant.

another / other / more

Because there are so many different varieties and grades of crude oil, buyers and sellers have found it easier to refer to a limited number of *reference*, *or benchmark*, *crude oils*. **Other varieties** are then priced at a discount or premium, according to their quality. (Other varieties of crude oil that are not reference or benchmark crude oils)

In the Gulf, Dubai crude is used as a benchmark to price sales of other regional crudes into Asia. (Other regional crudes that are not Dubai crude)

English i

5. Presuming reference often combine with reference nouns. Reference nouns are lexically partly empty, i.e. their meaning depends on the reader recovering information elsewhere in the text to understand what is meant. They are typically a more generalised category of the entity or an abstract noun.

e.g. process / problem / idea / program / advantage / diversity

If no other information is given, an oil price appearing in UK and other European media reports will probably refer to the price of a barrel of Brent blend crude oil from the North Sea sold at London's International Petroleum Exchange (IPE). This would commonly be in *a futures contract* for delivery in the following month. In **this type of transaction**, the buyer agrees to take delivery and the seller agrees to provide a fixed amount of oil at a pre-arranged price at a specified location. (more generalised category)

Opec controls the amount of oil it pumps into the market place. **This practice** enables it to keep the basket price within a predetermined range. [adapted] (lexically empty noun – Opec's practice of controlling the amount of oil it pumps into the market place)

Exercise 3.3

In the paragraphs the referring participants are in bold. Link them back their referents.

1. In its World Energy Outlook 2006, the IEA projected an increase in the share of the world's fertile land used to grow plants for liquid biofuel production from 1% in 2004 to around 4% in 2030, assuming favourable government policies and reasonable technical development. Using conventional biofuel technologies, **this land use** would allow 5% of transport fuel demand to be met. If second-generation biofuel technologies were available, **this** could rise to 10%. **This** illustrates that biofuelscan only be expected to displace fossil fuels for transport to a very limited extent. Nevertheless, **they** have a significant effect on global agriculture and agricultural markets because of the large volumes of feedstocks and land areas needed for **their** production.

http://www.greenfacts.org/en/biofuels/l-2/1-definition.htm

2. The Bioenergy Technologies Office's (BETO's) Algae Program is carrying out a long-term applied research and development (R&D) strategy to increase the yields and lower the costs of algal biofuels by working with partners to develop new technologies, to integrate technologies at commercially-relevant scales, and conduct crosscutting analyses to understand the potential and challenges of an algal biofuel industry that is capable of annually producing billions of gallons of renewable diesel, gasoline, and jet fuels. These activities are integrated with BETO's longstanding approach to accelerate the commercialization of lignocellulosic biofuels.

http://energy.gov/eere/bioenergy/algal-biofuels

3. Biofuels offer many benefits. By reducing demand for petroleum, biofuels could make energy supply more secure. **Their** use would also reduce import bills for energy-deficient countries and offer improved balance of trade and balance of payments. All **these developments** would unfreeze scarce resources for other pressing needs.

http://www.scidev.net/global/capacity-building/opinion/biofuels-benefits-and-risks-for-developing-countr.html

Participants and processes (verbs or verb + complement) can be substituted (replaced) or elided (left out). In both cases, a more specific reference is considered superfluous.

	Substitution	Ellipsis
participant	one / ones	Ø
process	do / do so	Ø

Global production of biofuels is growing steadily and will continue to **do so**. (continue to *grow steadily - substitution*)

http://www.scidev.net/global/capacity-building/opinion/biofuels-benefits-and-risks-for-developing-countr.html

In the Gulf, Dubai crude is used as a benchmark to price sales of other regional crudes into Asia. This is not because there are more supplies of Dubai crude oil than of any other grade - there are not - but because **it** is one of the few Gulf crudes available in single, on the spot, sales as opposed to long term supply contracts. However, if **supplies** became extremely limited and price swings became exaggerated, a new benchmark would have to be found. (supplies of Dubai crude - ellipsis)

http://news.bbc.co.uk/2/mobile/business/904748.stm

Exercise 3.4

Complete the table by saying what each item replaces. Identify if it is substitution or ellipsis.

Solar-powered calculators vs battery-powered calculators

- 1. Not only have calculators managed to increase their capabilities, but they have managed to do so while remaining pocket-sized. An important element of their compact size is the particular power source that they employ. Calculators use either a solar panel, a battery, or both. This guide will detail the differences between solar-powered and battery-powered calculators,
- 5. describing how each source powers a calculator and what the advantages to each source are.
 - If a user does not require advanced features (such as graphing) from a calculator, there are a number of advantages that solar-powered calculators hold over battery-powered ones. The first advantage is that solar-powered calculators never require replacement of batteries. The second is that they are lightweight. The absence of a battery reduces their weight significantly when measuring the battery's weight as a proportion of the calculator's overall weight. The third advantage is that solar-powered calculators generally cost less than battery-powered ones do.

There are some disadvantages to solar-powered calculators as well. The main one is that they do not work in low-light situations. Solar power is also generally an insufficient source of electricity for calculators that are more powerful. Lastly, the display on a solar-powered calculator may be dimmer than the one on a battery-powered calculator.

eBay has a couple of ways of helping to ensure a satisfactory purchase when buying used calculators. The first is by making sellers' feedback freely available to buyers. You will be able to see what other buyers have said about their experiences with particular sellers, which will help you to decide whether to buy from those sellers. The second way ...

http://www.ebay.co.uk/gds/Solar-Powered-Calculators-vs-Battery-Powered-Calculators-/10000000177630725/g.html

		Substitution or ellipsis
line 2	do so	
line 3	both	
line 7	ones	
line 8	The second	
line 11	ones	
line 11	do	
line 12	one	
line 15	one	
line 17	The first	

REGISTER

Vocabulary & grammatical structures

Register refers to the general style of the text. For example, is it formal/informal, personal/impersonal, everyday/academic or spoken/written? We can think of the lexicogrammatical choices (vocabulary & structures) as being situated along 3 clines.



The three systems operate relatively independently.

Exercise 4.1

These sentences function along the cline of subjective/objective sounding. Place them in order of least objective sounding to the most objective sounding.

- a. John may have gone to the football match.
- b. I think John went to the football match.
- c. John possibly went to the football match.
- d. It is possible that John went to the football match.
- e. In my opinion, John went to the football match.

Exercise 4.2

These sentences function along the cline of congruent/abstract. Place them in order from more congruent to more abstract.

- a. When a supermarket reduces the price of their bananas, more people will buy them.
- b. Increased sales are a result of a reduction in price.
- c. When a supermarket makes the price of their bananas cheaper, more people will buy them.
- d. Reducing the price of bananas leads more people to buy them.
- e. A supermarket makes the price of their bananas cheaper, so more people will buy them.
- f. A reduction in the price of a product leads to an increase in its sales.

Exercise 4.3

These items function along the cline of everyday/technical. Decide whether each item is more everyday or more technical and place it in the appropriate column.

- a. four-sided figure
- b. quadrilateral
- c. creditor
- d. someone who lends money
- e. loan-shark
- f. accommodation
- g. place to stay
- h. unemployment benefit
- i. the dole
- j. government transfer

Academic discourse

In report writing or academic discourse the register variables usually select for language that is

- more objective and impersonal sounding,
- less congruent,
- · more technical.

To achieve the appropriate register, we can use different lexico-grammatical resources: nominalisation, conjunctions, modal verbs and thematic choice.

Nominalisation

Nominalisation refers to reformulating a verbal group, adjective or clause as a nominal group. Consider the following sentence.

We can see that Portugal doesn't contribute so much in the GDP of the Eurozone, which could mean that Portugal isn't economically healthy.

The language selections are

- more congruent (Portugal doesn't contribute so much in the GDP of the Eurozone, which could mean),
- more personal, less objective sounding and more informal (We can see that; doesn't), and
- somewhat technical (GDP; economically)

Compare the reformulation, which is more objective and impersonal sounding, less congruent, but equally technical.

Portugal's low contribution to the GDP of the Eurozone suggests that it is not economically healthy.

Portugal's low contribution to	suggests that	it is not economically healthy.
the GDP of the Eurozone		
We can see that Portugal	which could mean that	Portugal isn't economically
doesn't contribute so much in		healthy.
the GDP of the Eurozone,		

The reformulation relies on NOMINALISATION, i.e. reformulating a clause as a nominal group, and using a verb that implies INTERPRETATION such as *suggest, imply, show, demonstrate, corroborate* or *prove*. This structure eliminates the need for expressions such as *We can see that, I think that* or *in my opinion,* which are overtly personal and subjective sounding.

Exercise 4.4

Reformulate the sentences by nominalising the underlined section and using a verb of interpretation (e.g. suggest, demonstrate). Other changes may be necessary to make the information more concise or to improve the information flow.

e.g. <u>After analyzing some data and some economic indicators</u>, I can conclude that it it's a difficult task to determine the refugee quota because so many things are at stake.

<u>The results of the analysis suggest that it is difficult</u> to determine the refugee quota because so many things are at stake.

- 1. <u>After analyzing these data</u>, I think France is prepared to receive this number of refugees since they are showing huge improvements in their economy.
- 2. In Danah Boyd's opinion, there are some good conclusions that can be made about the fact that Mimi was involved in protests as a student. It can mean that she is an interesting and active person, and those are the characteristics we are looking for.
- 3. Analysing the current European situation, it's clear that those values won't work.

Conjunctions

Interpretation can also be realized through conjunctions, which results in a less congruent register.

In France the GDP is about US\$2,829 bn, which corresponds to about 21% of GDP in the Eurozone. So we can see that France has a large contribution to the Eurozone.

In France the GDP is about US\$2,829 bn, which corresponds to about 21% of GDP in the Eurozone. **Thus**, France has a large contribution to the Eurozone.

Eventually this took on such great proportions that it became a crisis, the EU migrant crisis. <u>This meant that</u> Europe's representatives had to come up with a solution.

Eventually this took on such great proportions that it became a crisis, the EU migrant crisis. <u>As a result / Consequently,</u> Europe's representatives had to come up with a solution.

Exercise 4.5

Reformulate the following examples using an appropriate conjunction to improve the register.

- 1. This surge in sales of hybrid and electric cars may be related to news that GM and SAIC would jointly produce electric cars. This means that the cars would become more efficient and affordable.
- 2. <u>Now we are able to conclude that</u> the values espoused and demonstrated by Shell through its advertising campaigns changed over time.
- 3. From 2011 to 2013 the number of hybrid electric cars doubled and both plug-in hybrid-electric and electric cars increased over sevenfold. This meant hybrid/electric cars made up almost 8% of all passenger car sales in 2013.

Modality in the verbal group

Modal auxiliary verbs (*may, might, can, could* etc.) and verbs like *seem* and *tend* in the verbal group can adjust interpersonal meanings and make the text sound more objective. Compare:

<u>I like to believe that</u> after many years people are finally acknowledging the mistakes they've committed and are trying to change.

People **may** now finally be acknowledging the mistakes they have committed and be trying to change.

Modal verbs and verbs like *seem* and *tend* can be used to adjust meanings of both non-past and past situations.

Non-past

Having the most expensive players in the world on your team **may not be** enough to win titles and dominate football on the pitch.

Subject	Verbal group		Complement
	Modal	Verb - infinitive	
Having the most expensive players in the world on your team	may	not be	enough to win titles
	Seem/tend	Verb –TO + infinitive	
Having the most expensive players in the world on your team	does not seem	to be	enough to win titles

Past

The president's strategy may have earned the team a lot of money, but ...

	Verl	oal group	
Subject	Modal	HAVE + Verb (past participle)	Complement
The may have earned a president's strategy		the team a lot of money	
	seem/tend	TO HAVE + Verb (past participle)	
The president's strategy	seems	to have earned	the team a lot of money

Exercise 4.6

Rewrite the sentences using a modal verb or one like *seem* and *tend* to make them sound more objective.

- 1. I think the main reason that the governments and people in power refuse to really address the issue of global warming is the power of the oil based economy.
- 2. We can assume that the survey was made to HSBC expat clients.
- 3. I think France is prepared to receive this number of refugees since they are showing huge improvements in their economy.
- 4. I guess Chevron has changed the image they wish to project over time because of the different charges and cases which the company was involved in. ... So I think now Chevron is aware of this antagonism between its attitude and the image they wish to project. So Chevron maybe decided to project an image of a company focused on solving professional and complex issues by working hard and seriously.
- 5. I admit that football is sometimes entertaining to watch because of the thrill and hope that your team/country will win.

Thematic choice & register (close \leftrightarrow distant social relatins; congruent \leftrightarrow abstract)

Choice of theme has consequences for the register of the text. Compare two sentences.

Theme Rheme

a. In this campaign we see a more corporate side of the firm.b. This campaign illustrates a more corporate side of the firm.

Selecting a prepositional phrase as theme (a.) forces the writer to use a human subject with a more concrete mental process verb (e.g. see, conclude, think, assume) to interpret the campaign. Furthermore, it makes the text sound more subjective because it mentions the writer and/or reader explicitly. In b. the writer can select a more abstract verb of interpretation (e.g. suggest, imply, represent, symbolise) and avoid all mention of the writer or reader.

When the Theme is realised by a personal pronoun (I, you, we) and followed by a mental process verb (e.g. think, assume), the assessment can often be simply left out or replace by an adverb of frequency.

	Theme	Rheme	
a.	1	think that managers have a tendency to exaggerate when they organize too many	
		events in the name of team building.	
b.	Managers	often exaggerate when they organize too many events in the name of team	
		building.	

Exercise 4.7

Rewrite each sentence, making it sound more objective.

On a first approach we might be misled and not understand the real message with this ad.
 At first glance, the ad ...

- 2. Basically, you take some mortgages of different people to form a bigger "mortgage", with a value of 50 million dollars, which they call a Mortgage-backed Security.
 - A mortgage-backed security ...
- 3. In the end I think that what is important is not how much a manager interferes in the organisation but the quality of the intervention.
 - What
- 4. When you're working in a team, you're learning and producing more.
 - Teamwork ...
- 5. In my opinion, this is a trend to continue because the emerging economies are still going to pass through the states of evolution of the countries of the first world, and for that energy is required.
 - This trend ...
- 6. In the graph it's observed that oil prices remained constant during the period following World War II.
- 7. The conclusion we can make from these pictures is that, with this campaign, the company is showing people how they are planning to achieve the goals that were implied in the first campaign.
- 8. By analysing the graph, and subsequent information, we can conclude that although petrol/diesel cars are still preferred by US car buyers, the electric/hybrid sector has been gaining influence over the past years.
- 9. What I am going to analyse in this text is the image that Shell wanted to project over time. To do that, I am going to explain the differences between advertising campaigns between 2004 and 2010. ... In the images below we can see Shell's advertising campaigns from 2004 and 2005. ... With these three examples we are able to conclude that Shell, which was growing and expanding at the time, wanted to show how powerful there products were. ... Last, we have a picture of a man smiling on an oil ship and the slogan "Where you demand, we supply".

FUNCTIONAL LANGUAGE

Comparison & contrast: similarity and difference

Relations of similarity and difference can be expressed in different ways. They can be realised within the clause as a verb, adverb, a prepositional phrase, or within the nominal group, they can be realised as a conjunction that links an independent clause and a dependent clause, and they can be realised as conjunctions that link sentences or larger chunks of text. Examples are given in the following table.

Word class	Examples	Example sentences
conjunction (linking sentences or larger chunks of text)	By contrast, Similarly,	The Toyota Lexus was found to be very reliable. Similarly, the Prius performed consistently well. The Japanese manufacturer Toyota dominated the list of most reliable cars for 2016. By contrast, the cars voted the least reliable included mainly US and European manufacturers.
conjunction (dependent + independent clause	whereas while	The Toyota Prius was found to be very reliable while the Ford Fiesta received the lowest scores for car dependability
preposition	in comparison with compared to/with in contrast with like unlike	In comparison with the Toyota Prius, the Ford Fiesta scored much lower on the dependability index. Like the Toyota Lexus, the Prius was found to be the most reliable car for its category. Unlike the jeep Cherokee, the Toyota RAV4 performed consistently well on reliability.
verb	differ (from) deviate (from) vary diverge (from) resemble	The Chrysler 200 differs from the Chrysler 300 only in its size. They resemble each other in their low dependability.
noun	difference similarity	The difference between the Chrysler 200 and the Chrysler 300 is that that the former is smaller than the latter. The similarity is that they were both found to be unreliable.
adjective	different (from) similar (to) the same (as)	The Chrysler 200 is different from the Chrysler 300 only in its size. The Chrysler 200 has the same low dependability as the Chrysler 300.
adverb	both	The Chrysler 200 and the Chrysler 300 were both found to be unreliable.
determiner	bothand neithernor	Both the Chrysler Town and Country and the Dodge Grand Caravan performed poorly in the minivan category Neither the Chrysler Town and Country nor the Dodge Grand Caravan performed well in the minivan category.

Relations of comparison can be realised through comparative and superlative forms of adjectives and adverbs.

Comparisons can be used to compare two entities:

- Few things will ruin your day **faster than** a car that won't run.
- Honda's reliability ratings have historically been rock solid, but the cherry on top is that if they do break down, the company's products are generally **less expensive to fix than** the competition.
- Few automakers have made **greater** strides in recent years **than** Buick. The brand's commodities are **better** looking, **better** performing, and **more** comfortable **than** ever.
 - http://www.digitaltrends.com/cars/most-reliable-cars/#ixzz4Ksv4Dktq

To compare more than two entities:

- These are the most trustworthy rides you can buy.
 - http://www.digitaltrends.com/cars/most-reliable-cars/#ixzz4Ksv4Dktq

To compare something and a definite standard:

• Ford cars tend to be unreliable. To compete they must become **more reliable**.

The form depends on the adjective or adverb.

Adjectives or adverbs with one syllable:

long	longer (than)	the longest
low	lower (than)	the lowest
late	later (than)	the latest

Two-syllable adjectives ending in **y**, **ow**, and **le**:

easy	easier (than)	the easiest
narrow	narrower (than)	the narrowest
simple	simpler (than)	the simplest

Other two-syllable adjectives or adverbs and longer ones:

```
profitable more profitable (than) the most profitable less profitable (than) the least profitable important more important (than) the most important
```

Irregular adjectives and adverbs

good	better (than)	the best
bad	worse (than)	the worst
well	better (than)	the best
badly	worse (than)	the worst
much	more (than)	the most
many	more (than)	the most
little	less (than)	the least
far	farther / further (than)	the farthest / furthest

Successful data commentary often relies on a mixture of language selections including comparisons using adjectives and adverbs as well as other ways of construing similarity and difference.

Exercise 5.1

Circle the correct form to complete the text.

Unilever, Nestlé and Danone lead the list [of companies that have tried to address the problem of undernutrition and obesity], having done the more / more than the others to integrate nutrition into their business models, produce healthier / healthiest products and ensure affordable pricing and wider / the widest distribution of healthier / the healthier products in emerging markets. Mars and FrieslandCampina are the more improved / the most improved according to the index. Mars rose from 16th to 5th place and FrieslandCampina from 19th to 8th since the 2013 index.

http://www.foodengineeringmag.com/articles/95175-ranking-the-largest-food-companies

Exercise 5.2

Use the expressions in the box to complete the sentences. In some cases there is more than one possible answer.

whe	reas	while	unlike		by contrast	on the contrary
	both	ŀ	nowever	but	similarly	also
1.	The Islan	nic State d	oes not enco	urage 1	reedom of speech	, it has a council who is
	responsil	ole for sha	ping the way	peopl	e think and promoting	g an ideologically approved
	message	to the rest	of the world.			
2.	Portugal,	ISIS	s, is a democra	cy wh	ere people have freedo	m of speech.
3.	The Port	uguese Sta	ate ministries	are ir	n charge of administer	ring public services for the
	benefit o	of the gene	eral public	, tl	he councils in ISIS are	concerned with matters of
	war such	as weapor	ns sales or exe	cution	S.	
4.	th	e Portugue	ese governme	nt and	ISIS have a head of Sta	ite. In Portugal this position
	is held b	y the pres	ident i	n ISIS	it is held by the Caliph	. The president, the
	Caliph, is	elected by	the people.			
5.	In Portug	gal the Cor	nsultative Cou	ncil is	an independent body	which can be consulted by
	the gove	rnment on	executive m	atters.	, in ISIS, the Shu	ura Council has an advisory
	capacity,	it r	ules on religio	us ma	tters and ensures that	the religious laws are being
	observed	<u>.</u>				
6.	The Port	uguese go	vernment ha	s mini	stries to oversee publ	ic services. ISIS has
		-			ils rather than ministrie	
		·	•			

Exercise 5.3

Use the information in the graph to complete the text.

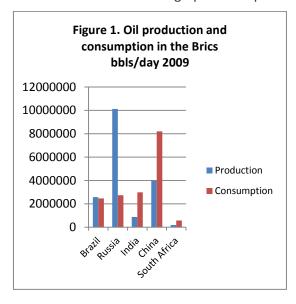
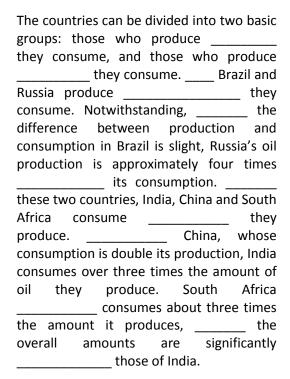
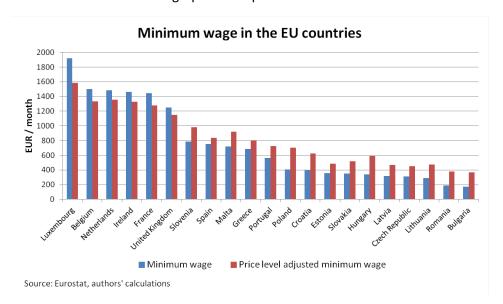


Figure 1 shows the oil production and consumption in the BRICS – Brazil, Russia, India, China, and South Africa – for 2009.



Exercise 4.4

Use the information in the graph to complete the text.



The figure shows the minimum wage per month in European countries. Luxembourg has _______ in minimum wage and Bulgaria has ______ . In general, the wages in the east and south of Europe are ______ those in the centre. When the wages are adjusted to prices, the countries with _____ wages such as Belgium or the UK lose some of their purchasing power, which indicates that the cost of living in these countries is high. _____, in countries such as Spain, Hungary or Romania, the cost of living is ______. For example, although the raw minimum wage in Slovakia is ______ in Hungary, the cost of living in Hungary is ______ so that the _____ wage goes ______.

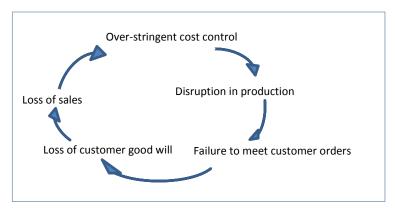
Cause and effect

Cause and effect relations can be expressed in different ways. They can be realised within the clause as a verb, a noun or a preposition, they can be realised as a conjunction that links an independent clause and a dependent clause or one that links two independent clauses, and they can be realised as conjunctions that link sentences or larger chunks of text. Examples are given in the following table.

Word class	Examples	Example sentences
conjunction	As a result,	
(linking sentences or	As a consequence,	Interest rates are up again [cause]. As a
larger chunks of text)	Consequently,	result, we will face cash problems [effect].
	Because of this,	
	Therefore,	
	So	
	Thus,	
	Hence,	
	That is why	
Conjunction (linking	therefore, so, thus,	Interest rates have risen[cause]; therefore,
independent clauses	hence	small companies may face cash flow
in a sentence)		problems [effect].
conjunction	because	Small companies face problems [effect]
(dependent +	as	because interest rates have risen [cause].
independent clause	since	Because interest rates have risen[cause],
		small companies face problems [effect].
	when	sitiali companies face problems [ejject].
	if	When interest rates rise[cause], small
		companies can face problems [effect].
preposition	because of (+ NG)	Due to low interest rates [cause] small
	due to	companies can now invest [effect].
	as a result of	Small companies can now invest [effect]
	on account of	due to low interest rates [cause].
	as a consequence of	due to low interest rates [eadse].
	owing to	
verb	cause	The recent rise in interest rates [cause]
	lead to	has led to bankruptcies [effect].
	result in	
	give rise to	
	bring about	
	be responsible for	
	spur	
	spark	
	arise from	Many bankruptcies [effect] have resulted
	result from	from the rise in interest rates [cause].
	stem from	
	be attributable to	

Word class	Examples	Example sentences
Noun	cause (of+ NG)	The cause of many of the recent
	reason (for + NG)	bankruptcies [effect] was the rise in
	reason (why + clause)	interest rates [cause].
		The cause of many of the recent
		bankruptcies [effect] was that the Central
		Bank raised interest rates [cause].
		The reason why many small businesses
		went bankrupt [effect] was that the Central
		Bank raised interest rates [cause].
	effect (of)	One of the effects of the rise in interest
	result	rates [cause] was that some small firms
		went bankrupt [effect].
		One of the results of the rise in interest
		rates [cause] was bankruptcy [effect].

Exercise 5.5
Use the diagram to put the following parts of sentences into the correct order.



which will cause costs to be controlled.
and the subsequent loss of customer goodwill.
This will inevitably mean a decline in sales
Over-stringent control can lead to disruption in production
This may, in turn, result in the failure to meet customer orders
due to delays in raw materials

Source: Finance, 1992. J. Comfort & N. Brieger, New York: Prentice Hall International. pp 17,19

Exercise 5.6

The following sentences about the consequences of fracking were adapted from http://serc.carleton.edu/NAGTWorkshops/health/case_studies/hydrofracking_w.html or http://www.greenpeace.org/usa/global-warming/issues/fracking/environmental-impacts-water/. Rewrite them using the prompt to regain the original sentence. The prompt must not be changed in any way.

e.g. Source contamination can be complicated because there are a multitude of potential health and environmental impacts of hydrofracking.

Due to ...

Due to the multitude of potential health and environmental impacts of hydrofracking, source contamination can be complicated.

- 1. The reason why air pollution also extends beyond the immediate drilling site and transportation route is that a by-product of natural gas drilling is methane gas, one of the worst greenhouse gas pollutants contributing to climate change.
- ... since ...
 - 2. Each well can require up to 8 million gallons of water, and up to 40,000 gallons of chemicals. Consequently, a well site may need up to 2000 tanker truck trips per frack.

Since ...

- 3. When workers inhale crystalline silica, in the form of sand, they can get silicosis (an incurable but preventable lung disease).
- ... cause ...
 - 4. The injection of fracking wastewater underground can cause earthquakes, which scientists refer to as "induced seismic events".
- ... caused ...
 - 5. Although the list was incomplete because there were trade secrecy exemptions, researchers compiled a list of 632 chemicals identified from drilling operations throughout the U.S. though
- ... due to ...
 - 6. Tremendous harm to humans can stem from exposure to toxic chemicals even at low levels.
- ... cause ...
 - 7. Regulators had not been informed that the pipeline was carrying tar sands oil and the disclosure [that the pipeline was carrying tar sands oil] was caused by the spill.
- ... a result ...
 - 8. Tar sands oil was not in the pipeline at the time of the spill, though regulators are investigating whether or not it played a role in making the pipeline corrode.
- ... causing ...
 - 9. Geologists believe that earthquakes can be caused by the millions of gallons of fluids forced underground at high pressure.
- ... trigger ...
 - 10. In spite of the evidence, the oil and gas industry routinely claims that water contamination has never been caused by fracking.
 - ... resulted in...

VERB TENSES

Present simple vs past simple

Exercise 6.1

1. Complete the sentences by choosing the correct verb form.

- a. Why do / did golf driving ranges **spring** up all over the suburbs of Washington,DC in the early 1990s? (Charles Kehler)
- b. With trade associations and lobbyists bidding for property in close proximity to the US nation's capital, land prices in Washington, DC are / were high.
- c. To cover the cost of acquiring a building plot in that market, property developers <u>have /</u> had to charge steep rents.
- d. And that generally <u>means / meant</u> constructing multi-storey office buildings or apartments.
- e. Yet during the early 1990s, developers begin/began constructing scores of golf driving ranges. A typical driving range might attract a few dozen customers each evening. Each would pay a few dollars for the privilege of driving golf balls into the night sky, but the total take in any given month would be too small to cover even the interest on the loan required to buy the land.
- f. Why do / did developers use their land in this way?
- g. Washington area developers <u>construct / constructed</u> new office buildings and apartments at a rapid rate throughout the late 1980s.
- h. Home prices and office rents <u>rise / rose</u> rapidly, and developers <u>acquire / acquired</u> undeveloped building lots in the expectation of further increases.
- i. When the national economic recession <u>begin / began</u> in 1991, the Washington property market is / was substantially overbuilt.
- j. Vacancy rates soar /soared and rents plummet / plummeted.
- k. Any developer who <u>constructs /constructed</u> a new office building or block of flats during that period can / could **expect** it to sit empty for a while.

Source: The Economic Naturalist: Why Economics explains almost everything, Robert H Frank, 2007

Glossary

to spring up – to suddenly appear driving ranges – places to practise hitting a golf ball to bid for – to try to buy to cover the costs – to recoup the money of the investment to charge steep rents – to ask for a high price for the rent multi-storey – more than one floor scores of – many to drive (golf balls) – to hit (golf balls) vacancies – unoccupied (flats) to soar – to go up / rise dramatically and quickly to plummet – to go down / drop dramatically and quickly to sit empty – to remain unoccupied

- 2. Circle the **time expressions** that indicate the *time frame* for the tense.
- 3. What form of the verb are the words in **bold**? Why?

Exercise 6.2

1. Complete the text by putting the verbs in the correct tense (present or past).

2. Circle any time expressions.

Using Economics: Predicting the effects of the drought of 1988

For the Midwestern United State, 1988 (1) *brought* (bring) one of the worst droughts¹ ever recorded. Corn production (2) (be) 35 percent lower than had been expected before the drought: soybean production (3) (be) down more than 10 percent, and oats and barley (4) (be) down more than 40 percent. As these events (5) (develop), economists (6) (attempt) to predict their consequences, using the basic law of supply and demand that we have developed in this chapter.

The drought (7) (reduce) the amount of any crop that would be supplied at any given price. The drought can be viewed as shifting the supply curve to the left. Predictably, with a given demand curve, the large shift of the supply curve (8) (result) in² much higher prices for these farm products: corn prices (9) (rise) by 80 percent by the end of the summer, soybeans by almost 70 percent, and wheat by 50 percent.

Economists also (10) (use) the supply and demand models to predict the effects on other products. Grain (11) (be) a major input into cattle production. With cattle production less profitable, many farmers (12) (slaughter) their cattle sooner than they had originally planned. As a result, meat production (13) (rise) slightly in 1988. The increased short-run supply (14) (result) in a decrease in meat prices (adjusted for inflation). Grain (15) (be) also a major input for the production of chicken. The supply curves for chickens and eggs (16) (shift) to the left, resulting in higher prices for these commodities. The higher prices of these agricultural goods (17) (result) in a shift to the right of the demand curve for other foods which (18) (be) substitutes. Thus, prices for foods, such as vegetables and fruits, whose supply (19) (be) not affected by the Midwestern drought, still (20) (increase) – by 5 percent in July 1988 alone.

 $^{^{1}}$ drought = seca

 $^{^2}$ to result in = to cause

Past simple vs present perfect

Exercise 6.3

Conjugate the verb in an appropriate tense: past simple or present perfect. Circle the expressions that indicate a time frame. The sentences form an article that was published in *Newsweek*, Feb 22, 2010. Complete it as if you were in 2010.

FROM WORST TO NEAR FIRST

1.	The state of Bihar was once (be, once) the most desperate state in India.
2.	Since 2005 it <i>has transformed</i> (transform) itself to become a model for the rest of the country.
3.	In 2005 Nitish Kumar (be elected) Chief Minister, and since his election he (do) the
	near impossible.
4.	Over the five years that Kumar (be) in office Bihar (post) 11 per cent average
	annual economic growth.
5.	In what (be, once) impassable badlands, the administration (lay) 6,800 kilometers
	of roads, (build) 1,600 bridges and culverts, and (cut) journey time in half in many
	areas.
6.	Car sales (eclipse) kidnappings as crimes by roving bandits (fall) steadily from
	1,297 to 640 and kidnappings for ransom (drop) from 411 to 66 between 2004 and 2008.
7.	Over the past two years the number of foreign tourists (shoot up) from 95,000 to
	356,000.
8.	How (Kumar, achieve) this?
9.	First, Kumar (focus) on competence over patronage.
10.	In other words, he (not, continue) the caste-related politics of the '80s and '90s.
11.	He (delegate) more financial and administrative powers to officials in the field.
12.	He (update) archaic rules that (make) civil engineers seek minister-level approval
	to spend absurdly low amounts of money.
13.	These moves (eliminate) the huge backlogs of simple matters piled up on senior officials'
	desks.
14.	Kumar then (redefine) the basic functions of institutions and (require) offices to
	do the work they'd been assigned.
15.	He (end) the widespread "transfer industry," which (sell) coveted bureaucratic
	posts to the highest bidders, and he (handpick) bureaucrats known for their
	competence.
16.	He (reform) the police force and the judiciary system.
17.	The moves (result in) nearly 39,000 convictions between 2006 and 2009, compared with
	an average of less than 10,000 in previous decades.
18.	Those convicted (include) a dozen state legislators and members of Parliament.
19.	In making these changes Kumar (show) that even India's darkest corner can make
	progress against crime, corruption, and caste- and creed-based demagoguery.
20	Kumar (break) the perception that all politicians are the same and change is impossible

TEXT TYPES

CV

Socio-cultural context

Purpose: To persuade the reader VERY QUICKLY and OBJECTIVELY that the candidate
has the knowledge & skills necessary for the job and so deserves to go to the next
phase of the application process

Field: recruitment & specific job tasksWriter-reader relation: Socially distant

Mode: written

Stages

Administrative	Name	States name
	Personal details	States nationality, date of birth. etc.
	Contact	States postal address, email address, phone number
Education/ qualifications		Lists name of degree, date awarded, institution, city, (country)
		May highlight professional knowledge in particular fields
Skills & qualities		States computing & language skills plus any other skills or qualities that are relevant for the job
Professional /work experience		Lists job title, dates, name of company, city, (country)
		Lists main tasks carried out
(Awards)		Lists awards attained, dates
Interests / Activities		Lists interests THAT ARE RELEVANT FOR JOB

The actual layout and organisation of the cv can vary. For example, you may choose to organise it around skills and not have a section for professional experience.

Language

The cv needs to be read quickly so it must be clear. Avoid writing sentences. In the list of job tasks carried out, use active structures with verbs, e.g. responded to customer queries rather than responsible for customer queries.

Cover letter/e-mail

Socio-cultural context

Purpose: To inform the reader what documents are being sent

• Field: correspondence

Writer-reader relation: Usually socially distant

• Mode: written

Stages

		Possible language
Salutation	Greet the reader	Dear Sir / Mr Smith/ etc.
	(Identify yourself)	I am currently completing a bachelor degree in Economics
Body	(Acknowledge previous contact)	In response to
	State purpose	Please find enclosed/attached I am sending
	(Indicate follow up action)	Could you please
Close	Write a polite ending	I look forward to hearing from you
	Close	Yours faithfully / sincerely
	Signature	

E-mails

- 1. Write a meaningful & informative subject line.
- 2. Keep the message focussed and short.
- 3. Respect social relations in language (close «» distant).
- 4. Keep the layout clear.
 - a. Short paragraphs
 - b. Blank line between paragraphs
 - c. Avoid fancy typefaces
 - d. Include signature line, [company*] & contact details at end of text
- 5. Proof-read for spelling, grammar & punctuation.

Letter

- 1. Follow conventions for layout (position of your address, name, position and address of recipient, date etc.)
- 2. Respect social relations in language (close «» distant).
- 3. Proof-read for spelling, grammar & punctuation.

Useful language

Letter	E-mail
Please find enclosed	Please find attached

Application letter / Motivation letter

(sometimes referred to as a cover letter)

Socio-cultural context

• Purpose: To persuade the reader that you are a good fit for the job & should continue to the next round

• Field: personal experience & profile for job

• Writer-reader relation: Usually socially distant

Mode: written

Stages

		Possible language
Salutation	Greets the reader	Dear Sir / Mr Smith/ etc.
Purpose	States purpose	I am writing to apply for
Justification, reasons, evidence	(Identifies writer) Gives reasons why writer is a strong candidate and good fit for the job. Should include: • Awareness of job tasks • Experience/professional knowledge • Skills/qualities • Enthusiasm Explains how writer acquired skills, etc. and why writer wants the job.	I am currently completing a bachelor degree in Economics
Close	Gives a polite ending	I look forward to hearing from you
	Close	Yours faithfully / sincerely
	Signature	

Useful sequences in justification stage.

Introduce experience

(Link to experience/Specify relevant aspect)

Name skill/knowledge/quality developed

Create link to company/job/job tasks (<u>key terms from ad</u>) or how it would benefit company

E.g.

As noted on my CV, I am currently completing the final year of a management degree. Several course units required the use of IT tools, which, together with my personal interest in computer-related activities and their development, has given me solid, practical experience of analysing data.

I am currently working in the call centre at my university. The experience has taught me how important the first contact with a company is, and, as a result, I am confident about approaching new companies by phone as well as by email and letters. In addition, my Portuguese language skills enable me to reach out to companies in emerging economies like Brazil. Such communication is a vital part of growing the global community of clients for the startup.

Useful expressions

- enable me to develop
- give me a thorough understanding of ...
- give me a solid background in ...
- help me to become ...
- give me insight into ...
- (help) make me aware of how important ...

What if I don't have the experience or qualifications?

Demonstrate interest and/or

awareness of job tasks/company's value or goals and/or willingness to learn/ apply professional knowledge

E.g. I know I don't have experience in running a marketing campaign.

In today's global economy international conferences are of enormous importance. I would welcome the challenge of putting into practice the knowledge I have gained at university and look forward to helping the clients reach their target audiences.

General tips.

- Include important key terms from the ad to ensure that a software program won't bypass your application.
- Sound enthusiastic.
- Refer the reader to your cv.
- Proof-read for spelling and grammar.

Useful website

https://jobs.theguardian.com/article/how-to-write-a-cover-letter/?hp

Analytical reports

Socio-cultural context

• Purpose: to assess (the extent of) a (potential) problem/situation and recommend courses of action / to determine the feasibility of a project or action

• Field: depends on specific context

Writer/reader relation: usually some social distance

Mode: usually written

Stages

	Ī
	Gives background information
Statement of issue / problem	States the issue or problem
Statement of purpose	States purpose of report
(Preview means of analysis)	Lists major data categories to be used in
	analysis
Topic sentence	States general topic of paragraph (or
	identifies analytical tools)
Description	Presents and describes the
	facts/data/indicators
Interpretation	Analyses and explains implications of facts
	(What would it mean for the company?)
	Discusses the evidence (e.g. implications,
	impact, etc.)
Deduction	Makes deductions about the interpretation
	related to the purpose of report /
	Makes a deduction about feasibility
Possible courses of action	Presents a possible course of action to
	mitigate problems
Assessment	Assesses the advantages and disadvantages
	of course of action
Conclusions	States conclusions based on and following
	from analysis and follow up alternatives.
	May be a reiteration of deductions
Recommendations of action	States the actions that the writer advises
	related to purpose of the report and based
	on analysis, follow up alternatives and
	conclusions
	Statement of purpose (Preview means of analysis) Topic sentence Description Interpretation Deduction Possible courses of action Assessment Conclusions

In report writing or academic discourse the register variables select for language that is

- more objective and impersonal sounding,
- less congruent,
- more technical.

See Register section.

Analytical exposition

Socio-cultural context

• Purpose: To persuade the reader that the writer's position on an issue is valid

• Field: Depends on the specific context/topic

• Writer-reader relation: Varies according to writer & reader

• Mode: May be spoken or written

Stages

Introduction	(Background information)	Gives background information to the issue
	Statement of issue	States (& describes) issue
	Thesis	States the writer's position on the issue
	(Preview of claims)	Lists topics of the claims
Analysis	Claim	States reason in support of the thesis
	(Elaboration)	Elaborates on the claim
	Evidence	Gives the means through which the claim is substantiated.
Conclusion	(Summary of claims)	Summarises main claims
	Reinforced thesis statement	Restates writer's position on the issue in a more forceful way