

INTERNATIONAL FACULTY OF ENGINEERING

# Academic English

Self-study answers

## Notes on Self-Study

*Academic English* provides an intensive introduction to the language and skills you need to succeed in your studies in English. Self-study is an important component in the course, and contributes to 10% of your grade for preparation and participation.

Self-study requires a base 1 hour per week (teachers may set up to 1 hour of additional homework). It is important that you stay on schedule and complete all exercises. Your teacher will verify your self-study during the mid-term progress test and final achievement test.

There are 3 parts to your self-study:

- Grammar and vocabulary exercises in the Student's book
- Grammar Pills slides with extra language notes
- Self-study answers.

### **How should I use the exercises and answers?**

First, read all instructions and explanations in the student's book. Also, go to the *Grammar pills* slides for more language notes. Next, complete the exercises EITHER in the book OR in a dedicated exercise book. DO NOT complete the exercises on separate sheets of paper, as these may easily be lost and your teacher will not be able to verify your self-study.

If you use an exercise book, ensure the exercises are clearly numbered and include page references.

Complete your exercises in one colour, without looking at the answers. When you are satisfied, check the answers and mark your own work USING A DIFFERENT COLOUR. If an exercise has presented a particular problem, you should repeat the exercise.

### **Any Questions?**

Your teacher will discuss grammar points in class. However, if you have particular questions arising from your self-study, you are encouraged to raise them in class. If you need additional support with your self-study or other aspects of the course, contact your teacher by e-mail to arrange an individual consultation.

## Unit 1 Grammar and vocabulary

### 1.1 1, that = work

2, that = the policy priorities

### 1.2 Suggested answers:

1b The density of iron is much less than that of gold.

2a The rural population of the United Kingdom is more than half of that of France.

b The rural population of France is more than double that of the United Kingdom.

3a Human brains weigh much less than those of whales.

b Brains of whales have a weight roughly four times larger than those of humans.

4a The life expectancy of an average weight male is five years longer than that of an overweight male.

b The life expectancy of an overweight male is slightly less than that of a normal weight male.

### 2.1 1 Priorities – prioritization

2 assumed – assumption

### 2.2

Verb	Noun(s)	Verb	Noun(s)
Approach	Approach	Identify	Identification
Assess	Assessment/assessor	Indicate	Indication
Assume	Assumption	Interpret	Interpretation/interpreter
Benefit	Benefit	Occur	Occurrence
Create	Creation/creator/creativity	Prioritize	Priority/prioritization
Define	Definition	Process	Process/procession
Distribute	Distribution/distributor	Require	Requirement
Establish	Establishment	Research	Research/researcher
Estimate	Estimate/estimation	Respond	Response
Function	Function/functionality	Vary	Variation/variety

2.3 a 2 Variation    3 benefits    4 responses

b 2 exclusion    3 reaction    4 analysis

### 2.4 Suggested answers:

2 This assessment was used to determine whether learning had occurred during the course.

3 There is not always a requirement to have a PhD in Business studies.

4 Each hypothesis was then tested individually.

5 However, a different interpretation has been put forward by White (2009).

### 3 Verb-noun collocations

3.1    2 take    3 measure    4 satisfy    5 achieve    6 make    7 take

3.2    find answer to problems: solve, resolve, tackle, overcome, deal with

Cause or encounter problems: pose, face, raise

Stay away from problems: circumvent, avoid

## Unit 3 Grammar and vocabulary

1.1 2 a      3 c      4 a, c (a is possible because the infinitive is optional)      5 a      6 b

1.2 N.B. This is only a suggested answer, there is more than one correct answer:

A In 2007 it was estimated that nearly 6 million South Africans had HIV/AIDS, more than any other country. This means that nearly one in six people in the world with HIV/AIDS were South African. It is worth noting that the other top five countries with the highest occurrence of HIV/AIDS are all neighbors of South Africa.

B As well as looking at short-term trends, it is always important to look at the longer term. For example, although unemployment was rising in the period covered in Table 3.1 it is important to note that the number of people in work in September 1992 was 1.3 million higher than in March 1983.

1.3 *it is + adjective + to-infinitive*

2 important

3 reasonable

4 enough

5 possible

6 interesting

It is + adjective + that

2 possible

3 likely

4 unlikely

5 true

6 evident

## 2 Word families

Noun	Verb	Adjectives	Adverbs
Accompaniment	Accompany	Accompanying	-
Creation/creativity	Create	Creative	Creativity
Derivation	Derive	Derived/derivative	-
Distinction	Distinguish	Distinct/distinctive	Distinctively
Illustration	Illustrate/illustrator	Illustrative/illustrated	-
Interpretation	Interpret	-	-
Specification/specifics	Specify	Specific	Specifically
Sufficiency	Suffice	Sufficient	Sufficiently
Symbol/symbolism	Symbolize	Symbolic/symbolical	Symbolically
Tradition	-	Traditional	traditionally

## 3.1 Nouns with related adjectives ending in *-ic* and *-ical*

-ic	-ical	-ic or -ical
Basic	Biographical	Analytic/analytical
Catastrophic	Chronological	Cyclic/

Climactic	Ethical	Economic/economical
Democratic	Hypothetical	Geographic/geographical
Microscopic	Ideological	Historic/historical
Schematic	Psychological	Ironic/ironical
Scientific	Technological	Philosophical
Strategic	Theoretical	Problematic/problematical

### 3.2-1 ~~climatic~~ climatic

2 'geographical' 'geographic' are correct, although 'geographical' is more likely to be used

3 ~~psychologic~~ psychological

4 'cyclical' or 'cyclic' are correct, although 'cyclical' is more likely.

5 ~~basical~~ basic

6 ~~catastrophical~~ catastrophic

7 ~~hypothetic~~ hypothetical

8 'problematic' or 'problematical' are correct although 'problematic' is more likely.

### 3.3.

2 theoretical

3 analytical/analytic

4 historical

5 economic

6 biographical

7 strategic

8 historic

9 ethical

10 economical (if the meaning is using the least amount of fuel or money / economic if the implication is that the method makes a profit for the user.

4

1 focused on

2 conducted

3 analysed

4 revealed

5 commented

## Unit 5 Grammar and vocabulary

### 1.1

1 b    2 i    3 k    4 h    5 e    6 g    7 a    8 d    9 f    10 c    11 j

### 1.2

- 1 b the history of science
- 2 a the most significant risks
- 3 a the main food
- 4 The painting shows.

### 2

- 1 As opposed to (...) As well as (...) such as
- 2 With the exception of (...) ahead of (...) in spite of
- 3 by means of (...) as distinct from (...) regardless of

### 2.2

- 2 as distinct from/as opposed to
- 3 as well as
- 4 by means of
- 5 ahead of
- 6 regardless of
- 7 such as
- 8 in spite of

### 2.3

- 2 regardless of age.
- 3 by means of rotating blades.
- 4 such as using a search engine.
- 5 with the exception of the researchers conducting the study
- 6 ahead of social responsibility
- 7 as well as wealth
- 8 with the exception of Malawi

Corpus information		
2 rather than	3 according to	4 due to
5 because of	6 up to	7 prior to
8 together with	9 Close to	10 as to

### 3.1 *Person, people, peoples*

- 1 people      2 people/peoples      3 people/persons      4 people      5 people/a people
- 6 people/peoples      7 people/persons      8 people

## Unit 2 Grammar and vocabulary

### 1 Complex noun phrases

- 1.1     2 the assessment of foreign language in schools  
          3 The contamination of water supplies  
          4 The consumption of alcohol during pregnancy  
          5 the experience of pain  
          6 The announcement of an increase in the top rate of tax to 80 percent.

#### 2.1a

Countable	Uncountable	Countable and uncountable
Coincidence	Erosion	Occurrence
Phenomenon	Transport	Disease
Margin	Evidence	Weight
Consequence	Damage	Decrease

#### 2.1b

Occurrence: uncountable

Disease: uncountable

Decrease: countable

### 3.1 Free text

4.1a     2 c     3 d     4 g     5 h     6 f     7 j     8 l     9 a     10 b

#### 4.1b

Anti-/pro-

Sub-/super-

Over-/under-

Intra-/extra-

Pre-/post-

4.2a     2 under

          3 sub

          4 extra

          5 post

4.2b     1 extend

          2 cultural

          3 date

          4 power

          5 biotic

## Unit 8 Grammar and vocabulary

### Passive voice

#### 1.1

1 The 'topic' is women, so this should come first. It is unnecessary to mention 'men'; women could not be outnumbered by any other group.

2 The 'topic' is women, so this should come first. This would represent the natural word order of English.

3 Mentioning 'people' is unnecessary. It is a weak subject and adds nothing to the quality of the sentence.

4 The 'topic' is the glass ceiling, so this should come first. Stylistically, it is clumsy to have a list of references as the subject of the sentence.

#### 1.2

1 passive: is estimated/was estimated/has been estimated

2 active: underwent/will undergo/have undergone

3 active: had risen/rose

4 passive: is based/was based/has been based/will be based

5 passive: is designed/was designed/has been designed

6 active: depends/depended/will depend

7 passive: is linked/has been linked

8 active: belongs

9 active: happened

10 passive: was subjected/had been subjected

2.1     a 2     b 1,     3,5     c 4,6

### 3 -ing nouns

3.1 Use dictionaries, the internet, etc. to complete this activity

Analyse: analysis

Apply: application

Build: -

Conclude: conclusion

Create: creation

Establish: establishment

Fund: fund

Identify: identification

Invest: investment

Learn: -

Obtain: -

Plan: plan

Remove: removal



Respond: response

Structure: structure

Teach: teacher

Transcribe: transcription

Undertake: -

3.2

2 transcribing / the transcription of; analysis

3 establishing / the establishment of ('the establishing of' is also possible, but less likely)

4 response

5 creation

6 learning

7 identifying / the identification

8 obtaining

9 removing / the removal of

## Unit 9 Grammar and vocabulary

### 1 Verbs followed by a noun phrase or *that*-clause

- 1.1 + noun phrase or *that*-clause: show, demonstrate, illustrate, indicate, reveal, suggest  
+ noun phrase only: summarise, compare, contrast, display, give, list, present, provide

1.2 2 The table ~~provides~~ shows/reveals/suggests/indicates that

3 Table 4 compares ~~that~~ the readership

4 correct

5 Table 1 ~~gives~~ illustrates / demonstrates / indicates / suggests that

6 correct

7 correct

8 Figure 1 ~~presents~~ demonstrates / illustrates / indicates / reveals / suggests that

2

2.1      3 c      4 g      5 a      6 h      7 f      8 d

### 2.2 Suggested answers:

2+b: Simmons (2009) talks about the increased opportunities for employment being created by the development of green technologies.

3+a: The government will give more funding to research that they hope will have immediate economic benefits.

4+c: The police began by arresting demonstrators handing out political leaflets.

5+e Ultrasound energy is a form of therapy being studied as a possible cancer treatment.

6+h An investigation was held to investigate the patients' claim that they were receiving inadequate care in the hospital.

7+d The Education Department is to introduce a new curriculum aiming to improve science teaching in schools.

8+f 'Verbatim' is a Latin term used to mean 'word for word'.

### 3 Adverbials used to comment

3.1 a

2 As might be expected

3 actually

4 interestingly

5 in fact

6 arguably

7 probably

8 surprisingly

9 certainly

10 predictably

B

a express certainly (e.g. no doubt, certainly)

b express a level of doubt (e.g. arguably, probably)

c say what we think is really the case (e.g. in fact, actually)

d say that something is expected (e.g. as might be expected, predictably)

e give our reaction to what we are talking about (e.g. interestingly, surprisingly)

3.2

Suggested answers

- 2 When students (100 in total) were asked what they intended to do after completing their first degree, surprisingly not one of them said they wanted to do postgraduate studies.
- 3 The abstract is arguably the most important part of an article in an academic journal because it is the only part of an article that many people read.
- 4 No doubt there are many limitations to the research, but I would like to point out two.
- 5 Although creativity seems to be a simple phenomenon, it is in fact very complex.

## Unit 10 Grammar and vocabulary

### 1.1

3 plural noun

4 uncountable noun

5 plural noun

6 plural noun

7 plural noun

8 plural noun

### 1.2 : Suggested answers

a relatively small number of animals (....) Numerous films show scientists (...) have a great deal of knowledge in common. Several languages have disappeared (...) A considerable amount of technology

## 2 Evaluative adjectives and adverbs

### 2.1 a

2 e    3 c    4 a    5 f    6 d

### 2.1 b: Suggested answers

1 in the conclusion, she makes helpful suggestions on how to improve team working

2 Jackson's findings have serious implications for agricultural water management in the tropics.

3 In general, the results showed a remarkable similarity between metropolitan and non-metropolitan areas.

4 Sinclair played a crucial role in establishing the field of applied linguistics.

5 This research was an important factor in changing childcare practices.

### Corpus research

2 not surprisingly

3 significantly

4 surprisingly

5 importantly

6 curiously

7 remarkably

8 predictably

9 oddly (enough)

10 strangely (enough)

2.2 For this activity, almost every adverb is possible in the position. Think about how you would justify your choice in various contexts, by continuing the paragraph. E.g.:

*Curiously, less than half ... This suggests a level of confidence in their employability.*

*Significantly, less than half ... This could have a real impact on the job market.*