EVALUATIONS AND EMPHASIS

A Adjectives for evaluating: opening sentences from science articles

The first comprehensive¹ survey of coral reefs is being carried out in the Indian Ocean. Fundamental² problems exist in current theories of the universe, a physicist claims. A ground-breaking³ discovery has been made in research into ageing and death. Important new information about the planets has been gained from the Orbis space probe. Working hours have increased and pressures at work have become more intense in the UK. A crucial stage in global warming could be reached within ten years, scientists say. The search for a unified theory of the human mind is misguided⁴, says a psychologist. The discovery of a dinosaur-like bone fossil in Africa is unique, according to scientists. In 1997, Irkan published a significant piece of research on open structures in bridges. Current responses to the global energy crisis are inadequate, a scientist has warned.

¹ complete, including everything that is necessary ² basic, from which everything else originates ³ very new and a big change ⁴ based on bad judgement or on wrong information or beliefs

B Teachers' evaluations of student assignments

- Good! The only criticism I have is that there is a notable¹ lack of key references to work before 1990. You should have given credit to² earlier work by Wilson and Healey.
- I am concerned about the validity³ of some of your analysis, and as a result, some of your conclusions may be invalid. Significantly, you had problems in Section C.
- I don't think the two different analyses you did are compatible⁴. It is not surprising that you had problems matching the two results, which could be viewed as almost contradictory.
- There are some solid⁵ arguments in Section A, but I think your conclusion in B is mistaken and lacks hard⁶ evidence. Your data are* rather limited. [*may also sometimes be *is*]

¹ important and deserving attention ² stated the importance of ³ basis in truth or reason ⁴ able to exist successfully together ⁵ of a good standard; giving confidence or support ⁶ clear, able to be proven

С

Other evaluative expressions

It is noteworthy that Holikov (1996) also had difficulty explaining the phenomenon. It is worth recalling that three previous studies failed to find a link between the two events. We should recognise/acknowledge how difficult it is to interpret these data. These results are borne out by¹ two other studies: Hermann (1998) and Wilson (2001). In his seminal² work, Abaka challenges³ current techniques, revealing flaws⁴ in data

interpretation.

¹ confirmed, shown to be true ² containing important new ideas, very influential ³ questions whether they are correct ⁴ faults, mistakes or weaknesses; we can say a method is *flawed* (adj)

D Emphasising

The research underlined/highlighted the need for a new social policy for childcare.

 When used at the beginning of a sentence for extra emphasis, negative expressions are followed by inversion of the subject and verb. A form of do is used when there is no other auxiliary or modal verb.

Under/In no circumstances / On no account <u>is it</u> right to video people without consent. Seldom/Never (before)/Rarely in the history of Europe <u>has there</u> been such a crisis. In no way / By no means <u>does this new study</u> invalidate existing studies. Only in 1985 <u>did the government accept</u> that something needed to be done urgently.

49.1 Look at A and answer the following questions about the adjectives there.

- 1 Which two adjectives have negative associations?
- 2 Which adjective sounds most positive and exciting?
- 3 Which two words can be quite close synonyms and could be used, for example, in the phrase to play a(n) ______ role in the development of?
- 4 Which word has a similar meaning to the adjectives in 3 but is stronger or more extreme?
- 5 Which word means the only one of its type?

49.2 Choose the best words from the box to complete each of these sentences.

acknowledged	borne	challenged	credit	crucial	
evidence	flawed	flaws	ground-breaking		
limited	mistaken	seminal	validity	viewed	

- 1 Nierinck gave ______ to the input of her research associates and ______ that they had played a ______ role in the project.
- 2 Unfortunately, these results are not ______ out by other work in the field and you are ______ to claim that there is hard ______ to support your theory. There are ______ in some of your calculations, and they need redoing.
- 3 Herbert ______ of his conclusions claiming that his data were ______ and were too ______ to be reliable.
- 4 This superb article can be ______ as a _____ piece of work which has made ______ discoveries about the nature of cancerous cells.

49.3 Rewrite these sentences beginning in the way indicated.

- It is by no means certain that all the students will pass their final exams. By no means
- Never before had he taught such an outstanding student. He
- 3 The country has rarely witnessed such a display of public feeling. Rarely
- 4 In no way will we be able to halt the process of global warming. We
- 5 Students will not be allowed to defer the completion of their thesis longer than one month under any circumstances. Under no circumstances
- 6 We will only know the answer when we gather a lot more data. Only when we

49.4 Rearrange the letters to make the word that fits the sentence.

- 1 The study _____ the need for more research. SHHHLTIGG
- 2 I don't find your arguments either _____ or convincing. DOILS
- 3 Unfortunately, the two studies came up with results which were not

_____. ABCELIMOPT

- 4 She wrote the first _____ study of this ____ period of Athenian history. OIRCPMEENHVES / YEK
- 5 It is _____ that his work was initially criticised for being too _____. TROWH / LLARIGNEC / IMITLDE
- 6 The article _____ the importance of literacy and numeracy skills in early education. DLSIUENREN

DESCRIBING RESEARCH METHODS

A

Useful word combinations

We may carry out a procedure or an experiment or a pilot study. [preliminary study] We use or, more formally, employ a method or a technique or an approach or an instrument or a device. [an object or method used for a special purpose] You can also use or employ any particular type of research methodology.

Apparatus [equipment for a lab experiment] is assembled and checked. Apparatus is an uncountable noun but you can talk about a piece of apparatus.

B Types of research method

research method	what the researcher does	limitation of method		
experimental study	manipulates ¹ a variable [anything that can vary] under highly controlled conditions to see if this produces [causes] any changes in a second [dependent] variable	done in the highly controlled setting of the laboratory – these conditions are artificial ² and may not reflect what happens in the infinitely more complex real world; other researchers often try to replicate ³ successful experiments		
relationship between two or more variables, using mathematical techniques for summarising datain a or or or cau cau anaturalistic (empirical) observation (also known as field study)observes and records some often over a prolonged period, in its natural setting withoutcau cau cau cau cau cau cau cau cau cau cau cau cau cau cau cau cau cau cau 		only shows that two variables are related in a systematic way, but does not prove or disprove ⁴ that the relationship is a cause-and-effect relationship can be very time-consuming as researcher may have to wait for some time to observe the behaviour or phenomenon of interest; difficult to observe behaviour without disrupting ⁷ it		
case study keeps in-depth ⁹ descriptive records, as an outside observer, of an individual or group		often involves only a single individual as the subject of the study and this person may not be representative ¹⁰ of the general group or population		

¹ makes changes to ² not natural ³ do in exactly the same way ⁴ show something is not true ⁵ something that exists and can be

seen, felt, tasted, etc. ⁶ altering ⁷ making it change ⁸ comes to conclusions on the basis of ⁹ detailed ¹⁰ typical



Remember that **phenomenon** is the singular and **phenomena** is the plural. The same applies to **criterion/criteria**. [a standard by which you judge, decide about or deal with something] See also Unit 31.

41.1 Complete the sentences in these two texts with words from the opposite page.

Scientists disagree as to whether cold fusion, the controlled power of the hydrogen bomb in the laboratory, is possible. In the past, some believed that e______s____under la_____c____using palladium and platinum electrodes could in fact cause heavy hydrogen atoms to fuse into helium and release energy, as the sun does. In carefully controlled experiments, researchers believed they could ma______the v______arising from the complexity of the electrodes and other equipment used. In such co_______, they argued, cold fusion was possible. However, attempts to r_______some of the experiments which claimed to be successful failed, and many now believe that cold fusion is in fact theoretically impossible.

Some ling	uists believe that	at we can best d	how language is	processed by
laboratory	experiments. I	lowever, laboratory expe	riments are by definit	ion ar
and may n	otr	what happens in the rea	al world. Other lingui	sts believe, therefore,
that em		is better, and p	refer to carry out f	studies
and c	studie	s of individuals in na	se	. In this way,
i	-d	data can be c	by observers w	ithout i
with the p	rocess in any w	ay, even though this may	be a more t	- C.
method. H	lowever, individ	lual studies in real situatio	ons may not be r	of the
general p	of	second language learners	. In short, both appro	aches have their
advantage	s and disadvant	tages.		

41.2 Use the words in the box to complete the diagrams. Add *alan* and anything else needed to complete the phrase.

check metho	odology pilot stud	ly procedure	assemble	technique	experiment	device	piece
carry out		employ/use -					apparatus

41.3 Now complete the sentences using phrases from 41.2.

- 1 It was a new _____ of apparatus so we _____ it first and then _____ it before using it.
- 2 The team carried out a ______ before conducting the main ______ to see if the ______ they were using was reliable.
- 3 The team needed to employ a different ______ for measuring the pressure, so they used a new ______ which they manufactured in their own laboratory.
- 41.4 Correct the eight spelling and other vocabulary mistakes in these sentences.
 - 1 It was very difficult to make reliable interferences from the data as we had so little.
 - 2 A correlational study is a good way of seeing if one phenomena is related to another in a system way.
 - 3 The experiment neither proved nor deproved Jessop's theory.
 - 4 We had to explain the unusual scores of five of the subjets in the sample, who all had totals well below the norm. It was possible there were unaccuracies in the data.
 - 5 An exterior observer can often unintentionally erupt the behaviour of the subjects they are observing.