

4. a) **amp, kilogram** (all the others measure distance/length)
 b) **viral, choir** (all the others describe something said aloud)
 c) **human, chicken** (all the others have more than two legs)
 d) **stove, coriander** (all the others are colours)

This question is testing the child's vocabulary and their ability to identify common features of words in order to find the link.

5. a) **auditorium**
 b) **rebellion**
 c) **analyse**
 d) **population**

This question is testing the child's ability to spell tricky words correctly.

Section 2 Test 4 (pages 22–23)

1. **C**
 2. **C**
 3. **A**
 4. **D**
 5. The headline uses simpler/more exciting/more informal language than the article. This is to make it attention-grabbing/appealing to readers to encourage them to read the article.

Award 1 mark for references to the headline using simpler/more exciting language, and 1 mark for answers showing an understanding that this is because its purpose is to grab the reader's attention so that they read the article.

6. Previous studies have identified the chemical 'reward' being released, but this is the first study that has manipulated this process in order to change the way that people think.

Award 1 mark for references to this study being the first to manipulate the reward circuitry demonstrated in previous studies, and 1 mark for references to this changing the way people think.

7. Their willingness to spend money shows that it was their actions, not just their tastes, that were changed. The implications of this are far-reaching because it could be used by doctors or businesses to influence other spending habits in the future.

Award 1 mark for references to the willingness to spend money being evidence of a change in someone's behaviour/actions, and 1 mark for references to the study having wider implications (e.g. influencing other spending habits).

8. These disorders are reliant on the same part of the brain that scientists manipulated in this study, so the same science could be used to change the way people with these disorders feel, think and act.

Award 1 mark for references to these disorders being reliant on the same part of the brain that was manipulated, and 1 mark for references to scientists being able to use the results of this study to treat those disorders.

9. **Either:** I think it would be a good thing, because it could help prevent addictions/treat existing health problems and it could make people like lots of different, new things that might be beneficial to them.

Or: I think it would be a bad thing, because personal tastes are part of our personalities and it is not fair/ethical to mess around with people's tastes.

Award 2 marks for an opinion followed by two valid reasons supporting that opinion. Also accept 'I don't know' if a reason is given for each side.

10. a) **chemical**
 b) **consuming**
 c) **theory**
 d) **rhythms**
 e) **interpret**
 f) **predictions**
 g) **factors**
 h) **associate**