

PART 3 Questions 21–30

Questions 21–25

Choose the correct letter, **A**, **B** or **C**.

Science experiment for Year 12 students

21 How does Clare feel about the students in her Year 12 science class?

A worried that they are not making progress
B challenged by their poor behaviour in class
C frustrated at their lack of interest in the subject

22 How does Jake react to Clare's suggestion about an experiment based on children's diet?

A He is concerned that the results might not be meaningful.
B He feels some of the data might be difficult to obtain.
C He suspects that the conclusions might be upsetting.

23 What problem do they agree may be involved in an experiment involving animals?

A Any results may not apply to humans.
B It may be complicated to get permission.
C Students may not be happy about animal experiments.

24 What question do they decide the experiment should address?

A Are mice capable of controlling their food intake?
B Does an increase in sugar lead to health problems?
C How much do supplements of different kinds affect health?

25 Clare might also consider doing another experiment involving

A other types of food supplement.
B different genetic strains of mice.
C varying amounts of exercise.

Questions 26–30

Complete the flowchart below.

Choose **FIVE** answers from the box and write the correct letter, **A–H**, next to Questions 26–30.

- A** size
- B** escape
- C** age
- D** water
- E** cereal
- F** calculations
- G** changes
- H** colour

Choose mice which are all the same **26**



Divide the mice into two groups, each with a different **27**



Put each group in a separate cage.

Feed group A commercial mouse food.

Feed group B the same, but also sugar contained in **28**



Take measurements using an electronic scale.

Place them in a weighing chamber to prevent **29**



Do all necessary **30**