

INTERDEPENDENCE

Variation and inheritance

levels
4-6

1 Jane and Sarah are identical twins: they both have blue eyes; Sarah has blond hair but Jane has red hair.

a What do you think one of the twins has done to change her appearance?

1 mark

b Explain your answer.

2 marks

2 Robert and Matthew are brothers. Robert has red hair and Matthew has dark brown hair.

a Does this mean that one boy has changed his natural hair colour?

1 mark

b Explain your answer.

2 marks

3 The Jones family has five sons. They all have dark brown hair and three of them have blue eyes and two have brown eyes. Three of them can play the piano and two are very good swimmers.

Which of these characteristics are inherited from their parents and which are environmental characteristics?

4 marks