

# Answers

## 9A Genetics and evolution

### 9Aa Environmental variation

#### Student Book

#### 1: 9Aa Monsters and myth

1 a no longer living

b any one sensible suggestion, such as change in environmental conditions, disease or the introduction of a predator/humans

2 a any two sensible suggestions, such as size, length of neck, shape of head, shape of teeth

b by the environment or by inheritance/heredity

3 a group of organisms that can reproduce with one another to produce offspring that can also reproduce

4 *Megalosaurus*

5 nucleus (it is also found in mitochondria but students may not know this)

#### 2: 9Aa Environmental variation

1 sensible suggestions, such as being given the right amount of water, warmth, light, carbon dioxide, nutrients/minerals/mineral salts

2 a two from: amount of light, temperature, humidity, wind/air currents/draught

b other humans and possibly other plants and/or animals

3 a B – the tree is bent/curved; C – the apples have scabs/damaged skin; D – the person has a scar

b B – wind; C – a parasite/insect/disease; D – fire (knife or other sharp object or disease are also sensible suggestions)

4 a one of: hair length, clothing

b continuous because they can have any intermediate value between two points

5 B – continuous (there are degrees of curvature); C – discontinuous (the fruit either has the disease or does not) but some students may justify continuous as being the amount of the fruit affected and this should be considered as correct; D – discontinuous (the person either has a scar or not) but again some students may justify this as continuous by taking into account the amount of scarring and this should be considered correct

6 a They are probably the same species.

b Plants that look very different from each other may not look as if they are the same species and so may be classified as two different species.

### Activity Pack

#### 9Aa-1 Environmental variation

1 water, light, mineral salts, warmth

2

- characteristic – a feature of an organism
- environment – the conditions in a habitat
- environmental factor – anything that can change the conditions in a habitat or the organisms that live there
- environmental variation – differences between organisms caused by environmental factors
- physical environmental factor – something non-living in an organism's surroundings that can change it

3 a hair colour

b chin shape (or hair colour)

c moles

4 produce offspring

5 a diet (lack of algae or shrimps)

b They may have thought that they were a new species of flamingo.

#### 9Aa-4 In the garden

1 small plants – shaded by apple tree; apple tree missing branches – person sawing; bigger tomato plants – extra fertiliser added; apples with holes in – bird feeding on them; short grass – lawnmower; plants missing flowers – person picking them; lettuce leaves with holes – rabbit

2 continuous variation examples: smaller/bigger plants  
discontinuous variation: number of holes in apple/lettuce leaf, or whether a plant has been attacked by something or not

#### 9Aa-5 More environmental variation

1 (possible answers)

person with a suntan – Sun

plant with holes in leaves – snails

wilted plant – lack of water

tree with hole in it – woodpecker

person with big muscles – exercise

tree growing at an angle – wind

2 A living thing is called an organism. Different types of organism are called species. There is a lot of variation between different species. Some variation is caused by factors in an organism's surroundings. These are called environmental

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**DJ Losen**



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