

Name:

Date:

KS2 Quiz

Unit title: Helmets

1 What is a shell structure?

- A** A frame made of sticks.
- B** A solid block with no space inside.
- C** A hollow, curved shape that protects or contains something.
- D** A structure made of string.

2 Which of the following are important to have on a helmet? (Tick two.)

- A** Your favourite colour.
- B** Strong materials to protect the head.
- C** Soft padding for comfort.
- D** Stickers to decorate.

3 If the shell structure has weak areas, what might you do to change it? (Tick two.)

- A** Add more layers.
- B** Turn them into holes.
- C** Add more glue and water mix.
- D** Paint it with a nice colour.

4 What helps a shell structure stay strong?

- A** Leaving it flat.
- B** Using wobbly joints.
- C** Cutting it into small pieces.
- D** Layering materials.

5 What is meant by layering?

- A** Colouring in with crayons.
- B** Cutting out random shapes.
- C** Sticking materials on top of each other.
- D** Folding paper into a fan shape.

6 Why is it important to plan what the structure is being used for?

- A** To finish it quickly.
- B** To make it as colourful as possible.
- C** So that it fits its purpose and works well.
- D** So that you do not need to measure anything.

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7 Why is it useful to work as a team when designing a structure?

- A** So someone else can do the work.
- B** To copy someone else's design.
- C** To share ideas and solve problems together.
- D** So that the structure looks more colourful.

8 What should you do when evaluating your finished structure?

- A** Break it apart.
- B** Think about what worked well and what you could improve.
- C** Colour it in again.
- D** Throw it away.

9 Why is it important to test the product?

- A** To see if it can be sold in a shop.
- B** To check if it works properly and is safe to use.
- C** To make it look more colourful.
- D** To give it a name.

10 Explain ways to strengthen a shell structure.