

Name:

Date:

## KS2 Quiz

Unit title: Mechanical cars

**1 Which part is the bearing?**

**A**

**B**

**C**

**D**

**2 Which of these ways of powering a car is the least sustainable (non-renewable)?**

**A** Hydrogen.

**B** Biofuel.

**C** Electricity.

**D** Petrol.

**3 Which best describes the following: 'Design a mechanical car that can be easily assembled from a kit and can travel the maximum distance when powered'?**

**A** Market research.

**B** Problem statement.

**C** Design criteria.

**D** Customer feedback.

**4 Which material is the most durable choice?**

**A** Plastic.

**B** Cardboard.

**C** Rubber.

**D** Wood.

**5 Which material is the least sustainable choice?**

**A** Plastic.

**B** Cardboard.

**C** Rubber.

**D** Wood.

**6 Which is a property of a wooden dowel?**

**A** Waterproof.

**B** Biodegradable.

**C** Flexible.

**D** Non-renewable.

**7 Which diagram shows parts spaced out to display how they fit together?**

**A** Cross-sectional diagram.

**B** Annotated diagram.

**C** Exploded diagram.

**D** 2D diagram.

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**8** What is a simple model used to test a design before the final product?

- A Machine.
- B Prototype.
- C Mechanism.
- D Mechanical system.

**9** What are the parts of a machine that move together called?

- A A prototype.
- B An exploded diagram.
- C A slingshot.
- D A mechanism.

**10** Why is it important to test and evaluate a product?