

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.

**Which best describes the following:**

**3 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 What diagram shows parts spaced out to display how they fit together?**

- A** Cross-sectional diagram.  
**B** Annotated diagram.  
**C** Exploded diagram.  
**D** 2D diagram.

**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?**

*Write your answer on the back of this sheet.*