

## Instructions

Answer the following questions about car engines in the spaces provided. Draw diagrams where asked!

### Section 1: How the Engine Works

1. Explain how a car engine converts fuel into motion:

### Section 2: Engine Components

Label the diagram below with the following components: Piston, Crankshaft, Cylinders, Intake Valve, Exhaust Valve.

*(Imagine a simple engine diagram here)*

2. Write a short description for each component:

### Section 3: The 4-Stroke Cycle

Label the diagram below with the four strokes: Intake, Compression, Power, Exhaust.

*(Imagine a 4-stroke cycle diagram here)*

3. Describe what happens in each stroke:

### Section 4: Short Answer Questions

4. Why is the 4-stroke cycle important in engine efficiency?

5. What would happen if one of the engine components failed?

### Section 5: Bonus Drawing

Draw and label your own simplified engine diagram below. Include at least 3 components we discussed!

*(Imagine space for drawing here)*

**Tips for success:** Think about how all the parts work together to make the car move. Use your imagination for the diagrams!

This worksheet is designed to be engaging and educational, with a mix of writing and drawing activities to keep the student interested while learning about car engines. The layout is clean and easy to follow, with clear instructions for each section.