



\_\_\_\_\_  
Pathfinder's Name

## Small Engines

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1. Describe the design and operation of the two-cycle engine and the four-cycle engine.

Two-cycle engine \_\_\_\_\_

\_\_\_\_\_

Four-cycle engine \_\_\_\_\_

\_\_\_\_\_

2. Name the parts of the two-cycle engine and tell what each part does.

Parts

Usage

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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- 3. List four basic fuels used in small engines, and explain their use.

Fuels

Uses

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_

- 4. Show care and safety in fuel handling and storage.

- 5. Describe three types of ignition systems.

- 1. \_\_\_\_\_  
\_\_\_\_\_
- 2. \_\_\_\_\_  
\_\_\_\_\_
- 3. \_\_\_\_\_  
\_\_\_\_\_

- 6. Explain why gasoline is an improper cleaning fluid.

\_\_\_\_\_  
\_\_\_\_\_

- 7. List two acceptable cleaning fluids for small engines.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

- 8. List and tell how three basic lubrication systems operate.

- 1. \_\_\_\_\_  
\_\_\_\_\_
- 2. \_\_\_\_\_  
\_\_\_\_\_

3. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. List in order the steps of a general trouble-shooting procedure.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

10. Demonstrate that you can overhaul, inspect, and properly tune any small engine.

11. Demonstrate that you know how to test and clean spark plugs and glo plugs.