

# QUIZ

# STUDENT HANDOUT

Student Name: \_\_\_\_\_

## Stirling Engine Quiz

Fill-in the Blank

- 1 The source of heat is located \_\_\_\_\_ or outside of the main engine components.
- 2 Hot air \_\_\_\_\_ and cold air contracts.
- 3 The metal rods that move back and forth in the hot air chamber and cold air cylinder are \_\_\_\_\_.
- 4 Heat conversion into \_\_\_\_\_ is the study of \_\_\_\_\_.
- 5 A \_\_\_\_\_ is the part of the Stirling Engine that spins around and attaches to pistons by crankshafts.
- 6 Alternating between hot air expansion (push) and cold air contraction (pull) is a \_\_\_\_\_.



# STUDENT HANDOUT

## Advanced Stirling Engine Quiz

Short Paragraph

- 1 What is a piston?
- 2 Why is the flywheel important to the Stirling engine's design?
- 3 Define an 'external-combustion engine'.
- 4 List at least four different fuel sources for a Stirling engine.
- 5 Explain the basic principles behind thermodynamics.

