

Name: _____

Period: _____

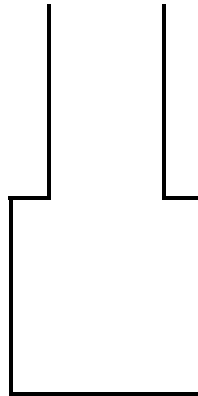
M.T.H.S. - Auto Tech
Mr. S. Carlson

Date: _____

Chapter 10: Basic Engine 4-Stroke-Cycle Operation Activity Sheet

Instructions: In the spaces provided below neatly sketch each of the 4 strokes of the internal combustion engine. **Start with the Intake Stroke.** Neatly shade or color your sketch and include labels for the intake (I) valve and exhaust (E) valve in each sketch. Label each stroke and on the lines provided describe the piston and valve action for each of the strokes. (See Fig's 10-10 to 10-13 on page 79)

1. First Stroke - Intake Stroke:



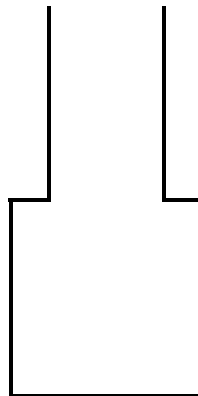
Intake Valve: Open or Closed

Exhaust Valve: Open or Closed

Piston Action: Going Up or Going Down

Air or Mixture Doing: _____

2. Second Stroke Label: _____



Intake Valve: Open or Closed

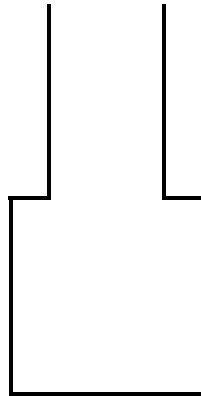
Exhaust Valve: Open or Closed

Piston Action: Going Up or Going Down

Air or Mixture Doing: _____

OVER PLEASE

3. Third Stroke Label: _____



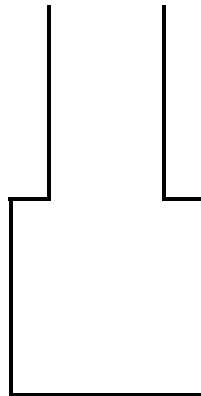
Intake Valve: Open or Closed

Exhaust Valve: Open or Closed

Piston Action: Going Up or Going Down

Air or Mixture Doing: _____

4. Fourth Stroke Label: _____



Intake Valve: Open or Closed

Exhaust Valve: Open or Closed

Piston Action: Going Up or Going Down

Air or Mixture Doing: _____