

Name:			
Date Started:	Date Completed:	Score:	
	Learning Activity Sl	heet	
	Heat Engines		
A. Read and understand each number.	h question carefully. Write the letter of	f the correct answer on the space provided be	efore
1. Which engine is	the most efficient?		
<ul><li>A. Carnot engine</li><li>B. diesel engine</li><li>C. gas engine</li><li>D. external combus</li></ul>	stion engine		
	governs and explains the function of a	heat engine?	
A. first law of them B. second law of the C. third law of them D. laws of thermod	modynamics nermodynamics modynamics		
3. Which of the fol	lowing refers to an ideal engine that ha	is the highest possible efficiency?	
<ul><li>A. internal combus</li><li>B. diesel engine</li><li>C. Carnot engine</li><li>D. external combus</li></ul>	-		
4. Which of the fol	lowing correctly describes the mechani	ical work done by heat engine?	
A. Work is the sam B. Work is the sam C. Work is the sam		ut.	

- A. The heat engine is efficient, since only 15% of the heat input goes into waste.
- B. The heat engine is not efficient, since 85% of the heat output goes into waste.
- C. The heat engine has high efficiency, since 85% of the energy is transformed into work.

\_5. A heat engine has an efficiency of 15%. Which of the following statements is TRUE about this?

D. The heat engine has low efficiency, since 85% of the energy is expelled as waste.



B.	Construct a flowchart describing how heat engine work	s. Explain the	different	processes in	the t	flowchart	you
	have constructed						

Be guided by the following criteria as you prepare your activity.

Criteria	Good (1) Satisfactory (3)		Excellent (5)		
Diagram	Only one process is reflected in the flowchart.	Only two of the processes are included in the flowchart.	All the processes are included in the flowchart.		
Explanation	Only one process is explained	Different fonts and font sizes are used. Font size reflects the category of the concept.	All the processes are accurately explained.		