

## **Stirling Heat Engine Report**

**Due: 1 week after completion of the heat engine (estimated Mar. 1 + 1 week)**

Total report length should be two pages minimum, four pages maximum.

Times New Roman, 12 point font, single spaced, 1" margins all around.

The report should include:

Header information (5%)

Group Name:

Your Name:

Your Group Member's Names:

Individual Contribution (20%)

What did you contribute to the construction of the heat engine? What fabrication steps did you contribute to? If there were problems, did you contribute to solving them? How?

Overall Design

(40%) Describe your final heat engine.

(10%) Take a picture and include it.

If you use someone else's picture, please give them credit.

Use your figure in the description. For example, if you want to talk about the flywheel, you can say, "The fly wheel was made of a Mandrake 10.2 CD and glued to the crank shaft with epoxy, see Figure 1." Under your Figure 1, you should provide a caption, such as Figure 1. Stirling Engine.

Performance

Describe your heat engine's performance.

(10%) Did it work at all? Did it try to start and fail?

(15%) Describe either the steps you took to try to get it to work or describe the performance when it worked. For instance, a working machine should have pistons going in and out, crank shaft turning, and diaphragm pulsing.