

EXAMINATION QUESTIONS - THE SOLAR FURNACE

HELPFUL LINKS: <https://technologystudent.com/energy1/solar4.htm>

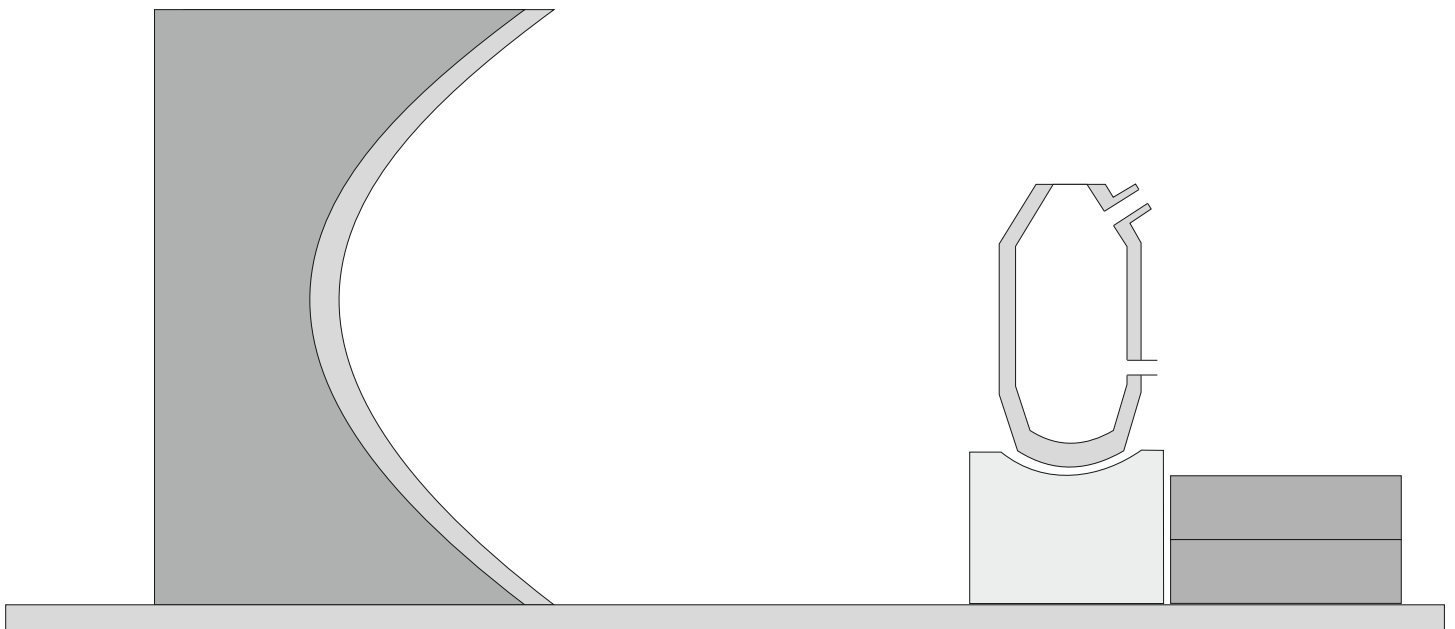
1. The French have a solar furnace which takes advantage of heat from the sun. What is the name of the furnace? **1 mark**

2. How many flat mirrors make up this solar furnace? **1 mark**

3. How many kilowatts are produced by the furnace when it is in operation? **1 mark**

4. What temperature does the furnace reach when heating iron ore? **1 mark**

5. The incomplete diagram below represents the solar furnace. Complete the diagram by adding missing parts. Ensure that you clearly show how the sun's rays are redirected by the reflector. Add labels to the diagram. **4 marks**



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6. Explain how the furnace shown works, when it 'smelts' iron ore. You may wish to add further labels and arrows etc... to the diagram. **4 marks**
