

EXAMINATION QUESTIONS - WHAT IS SOLAR ENERGY?

HELPFUL LINKS: <https://technologystudent.com/energy1/solar1.htm>

1. Complete the paragraph on solar energy by adding the missing words. **9 marks**

Solar _____ is energy from the _____ and without its presence all _____ on earth would end. Solar energy has been looked upon as a serious source of energy for many years because of the _____ amounts of energy that are made _____ available, if harnessed by modern _____.

A simple example of the power of the sun can be seen by using a _____ glass to _____ the sun's rays on a piece of paper. Before long the paper ignites into _____.

- vast technology sun power freely life
 flames magnifying focus

2. In the space below, draw a diagram that represents the experiment with a magnifying glass, demonstrating the power of the sun. Label your diagram and add explanatory notes. **6 marks**

DIAGRAM

NOTES

3. How can a magnifying glass be used to demonstrate how the power of the sun heats water. Use a diagram and notes to answer this question. **6 marks**

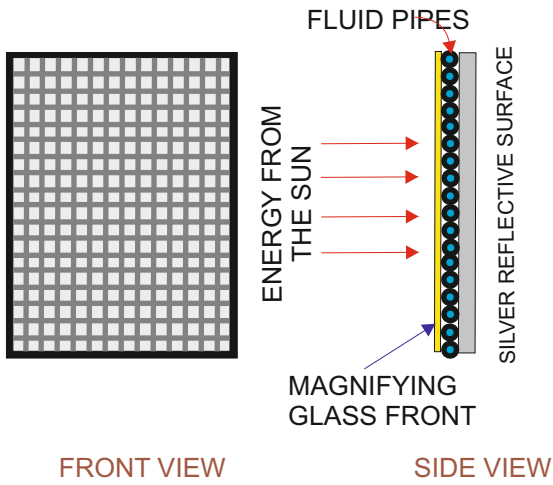
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4. A modern solar panel, for heating domestic water is shown opposite. Explain how it works. **6 marks**



5. Describe the climate in which this technology works efficiently.

6. Complete the diagram of water heating solar panel, by adding the missing labels. **7 marks**

