

MOBILE SOLAR POWERED COOKER

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On behalf of The World Association of Technology Teachers

W.A.T.T.



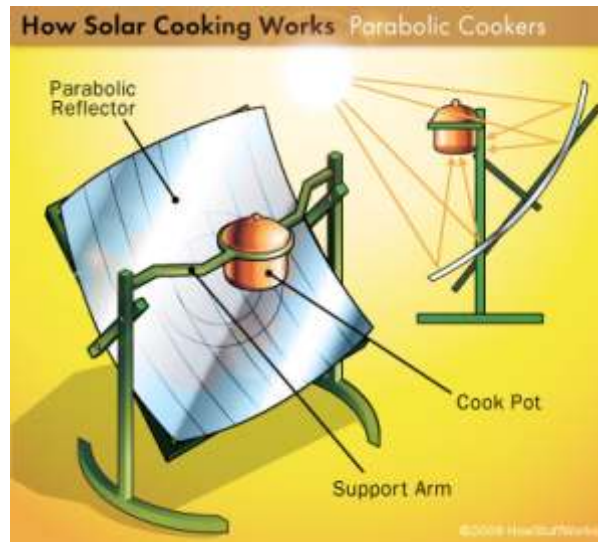
World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

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We all enjoy our food. When at home, it is easy to prepare the food we eat, using a standard gas or electric cooker. However, when on a walking / hiking trip, people tend to rely on small gas bottles to provide the heat needed to cook. These are often very small and can be dangerous, because of the need to carry a compressed gas bottle.

You are to design a mobile cooker, that can be powered by a gas bottle or solar power. Existing solar powered cookers are large and clumsy. Your cooker must be light and mobile and it must be possible to carry it in a back pack / haversack. This means that it will be ideal for walkers and hikers to warm up food.

Your design could include individual hobs for warming up more than one container/pan. It may include a small oven or even a low powered microwave. Remember, it must fit inside a back pack / haversack comfortably.

1. Draw a rough version of your design. Experiment with the shape and size of the cooker.
2. Draw a detailed colour rendered version of your final design. Include notes and labels, which explain the features and functions of the cooker. The cooker must look good, as well as being practical.
3. Explain the advantages and disadvantages of using your solar powered cooker. You should list advantages and disadvantages.