

Name _____



Topic 9 enVision™ STEM Project

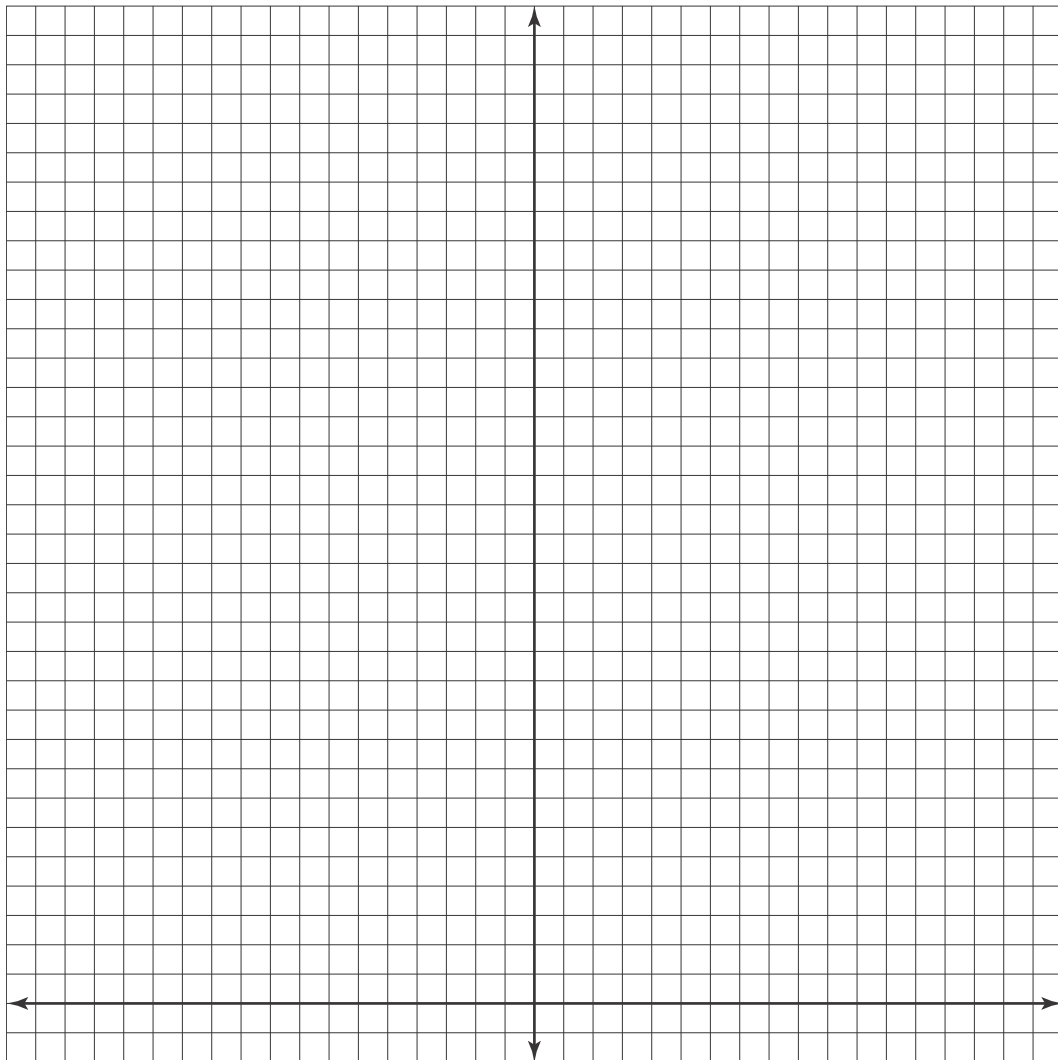
Parabolas in the Coordinate Plane

BLM 1

Describe the Project

You will design a parabolic solar reflector that can be used by your school or community. Describe what your solar reflector will be used for and why it must have a parabolic shape.

Use the coordinate grid below to draw a parabola representing a two-dimensional cross-section of your reflector. Show where the focus is located and any other features of the reflector that you think are important.



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BLM 2

Describe the Parabolic Reflector

Draw a sketch of your solar reflector. Show the important dimensions on your sketch.

Describe the materials you will use to make your solar reflector. Estimate the total cost of the reflector.

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Parabolas in the Coordinate Plane

BLM 3

Using the Parabolic Reflector

Describe the operation of your solar reflector in as much detail as possible. Explain how heating is accomplished, and how the heat that is produced helps achieve the purpose of your reflector.