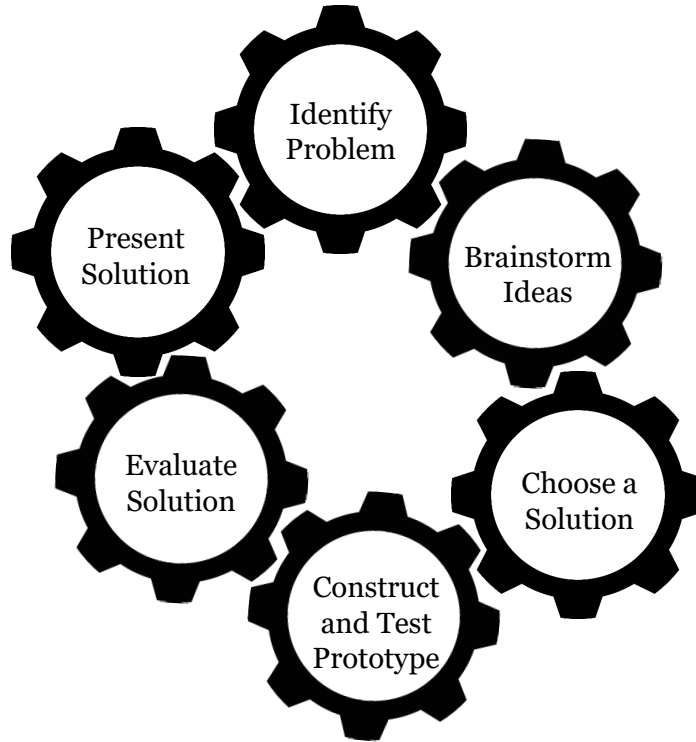


Engineer a Greenhouse – Student Worksheet

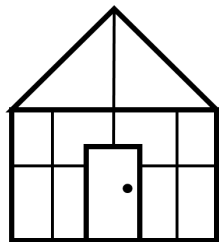
Greenhouses are designed so botanists can easily grow plants all year. In this lesson you will design and build a model greenhouse. Learning how to grow plants on other planets, like Mars, will be important to know if we send humans there!



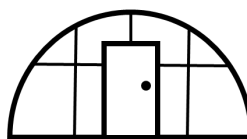
What kinds of plants did you choose to use for your greenhouse?

What is the problem you are trying to solve?

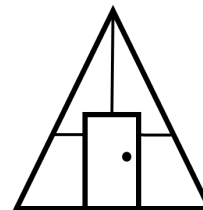
Greenhouse shapes vary based on the location, purpose, and what plants are going to grow inside it. Common greenhouse shapes include the gable, tunnel, and the A-frame.



Gable



Tunnel



A-frame



What kind of Greenhouse do you think would work best on Mars? Why?

What are the criteria we need to meet to build a successful greenhouse?

Work with your group to design a final plan for your greenhouse? What materials do you plan to use?

Look back at your criteria. Is your greenhouse successful? Does it meet the criteria?

How did you use the engineering design process to construct your greenhouse?

Did you have to make any improvements to your greenhouse? If so, what were they?

Have you seen a greenhouse in real life? How did it compare to your greenhouse?

