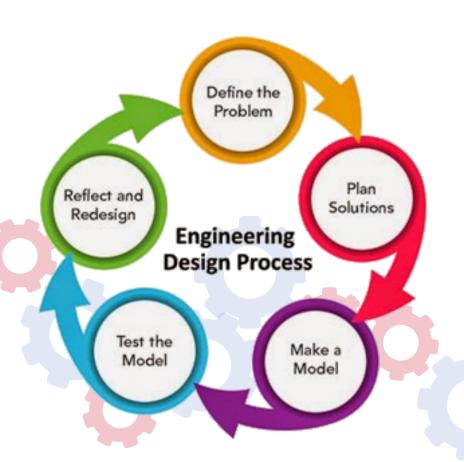
Design Challenge Planning Packet





The Main Problem

People are throwing their Christmas trees into the city's landfill. When placed in the landfill the tree's take longer to biodegrade.

The trees also can cause fires.

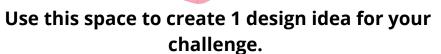
The city has three ideas of what can be done with the trees. They have asked us to investigate these options.



Part 1: Define the Problem

Our group is constrained by:
What we know from other designs:
Our group is most worried about:
Our group will be successful if:







Use this space to create 1 design idea for your challenge.

Idea 1

Idea 2

Part 2: Plan Sollutions

Use this space to create 1 design idea for your challenge.



Choose two design ideas that you will take on to Part 3.

The two design ideas we are going to use are:



Part 3: Make a Model

Using the materials provided by your teacher, work together to build your designs.

Idea 3

Part 4: Test the Model

Now it's time to make a plan on how you will test your model.

The materials we need are:

These are the steps we will take to test our designs:
2
3
4
5
6
7
8
9
10

Part 4: Test the Model

We will collect data by (circle one):

observation measuring time counting other



Use this space to write down your data. You may want to make a table.



The design that worked best was:
We know this was the best design because:
How does your design impact Earth's environment and resources?
After observing everyone's ideas, I think
would be the best way to reuse or recycle a Christmas tree. I think this because
Farmers and the city could use the information by

Use this page if you need more space.