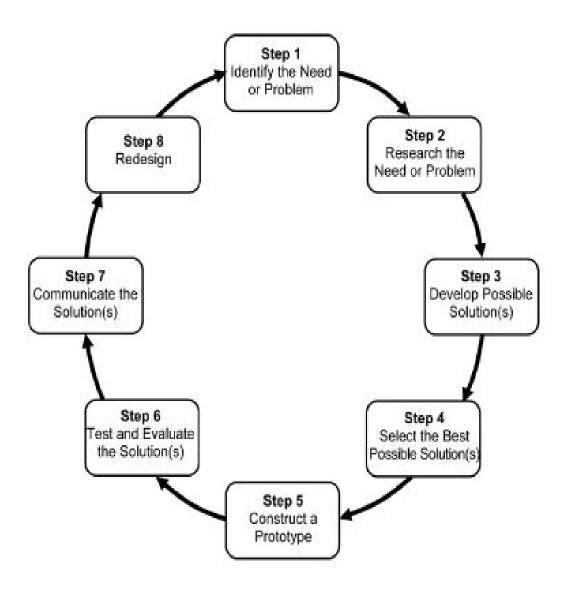
### Go Green!

Reduce, Reuse, Recycle, and Redesign a Grocery Bag!



Name \_\_\_\_\_

#### Engineer By Design Loop



https://www.linkengineering.org/Explore/EngineeringDesign/5824.aspx

Identify a N	leed or	Prob	lem
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	are negatively
impacting our	

#### Research the Problem

•Currently, we are living in the "
•The U.S. uses 100 billion plastic bags each year.
•The average American family takes home almost 1,500 plastic shopping bags a
•Only% of plastic bags are returned for recycling.
On average families recycle bags a year.

#### **Sketch Some Possible Solutions**

<u> </u>	1	1

#### STEM Challenge

You need to design a grocery bag that does not contain plastic. It needs to have handles. It needs to be able to hold 2 pounds for one min. without breaking. It needs to be less than one foot high by a half foot wide.

You can use the following supplies: old newspaper, old t-shirts, seeds, water

You can use the following tools: blender, scissors, baking sheet, ruler, scale

### **Sketch Your Prototype**

#### What Went Well From the Test?

## What Do You Need to Change From the Test?

#### **Sketch Some Possible Solutions**

#### What Went Well From the Re-Test?

# What Do You Need to Change From the Re-Test?