**Engineering Process Practice Problems**

1. Drilling in the oceans is a common way to get oil for everyday activities like gas for cars. Today however there was an accident and 200 gallons of gasoline has been leaked into the ocean. Your task is to design a method to clean up the leaked gas. It must be cleaned up in 7 days, and you have a budget of 54,000 dollars.
2. Your Mom decides to open up a bakery called Sweet Treats. She is doing great selling the treats but she has had a few complaints about the sweets getting crushed in the bag on the way home. She has asked you to design a new bag to put the treats in after they have been sold. Your mom gives you the current paper bags she has been using, plus cardboard, tape, glue, markers, and straws. She asks you to show her your design the next day.
3. You and your best friends like to play music but lately your neighbors have been complaining about the noise. Your Dad tells you that you and your friends can keep playing if you can soundproof the basement so the noise doesn’t carry. He gives you old egg cartons, extra blankets, some pillows, and a bunch of Styrofoam.
4. You are riding your bike in your neighborhood when you accidentally ride off the curb and crash your bike. You are fine but your bike wheel got bent and you can no longer ride it. You need to fix it in order to get home. All you have with you is a little screw driver and some duct tape. You need to be home in 2 hours or you will get grounded.