Gathering Supplies:
- Any Type of Paper
- Scissors
- Pencil
- String
- Markers
- Cardboard Tubes and Boxes
- Any Type of Tape

How To Steps:

1. You’re an engineer in the future! Your job is to help engineer the tools and machines needed for a new planetary mission!

2. Use the Engineering Design Process to design a rover, rocket ship, or robot to explore a new planet! See the Did You Know section for the Engineering Design Process steps. Remember to think about what type of surface the new planet has. How will your rocket land? What challenges will your design have to overcome?

3. Draw out your plans. Then use things from your recycling box like empty cereal boxes, paper towel tubes or other material from around your house. Check with an adult in your house to make sure what you have collected is okay to use for building your prototype.

4. Then engineer your prototype! What can you build?
Engineering the Future with Max
Engineers and inventors use what is called the Engineering Design Process. A 5 or 6 step plan that helps them solve a problem or create a new invention! Engineers are always looking for how to improve something, so think of these steps in a circle.

**IDENTIFY**
- Ask what the problem is?
- How will your invention be used?
- Research information

**IMAGINE**
- Brainstorm!
- Get creative!

**PLAN**
- Pick a plan.
- Draw it!
- Make a list of materials.

**CREATE**
- Make it!
- Build your prototype.
- Test and show others!

**IMPROVE**
- Hit a snag? Don’t give up!
- Redesign as needed.