# Unit 2 Lesson 1: The Engineering Design Process

## File 2.1.1: Engineering Design Process

**DIRECTIONS: Consider the logical process** for **developing technology** to solve a real world problem. What would you do **first**? What would you do **last**? What would be the steps **in between**? The steps you've been given represent a **12 step process** called the **Engineering Design Process**. **Read the title of each step** and **put them in the order that you believe makes the most sense.** When you are done, call for you teacher and he will check to see if your order is correct. If it is not, keep trying until you get it right. Be prepared to justify your choices.

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| **Step 1** | **Define** the Problem |
| **Step 2** | **Brainstorm** Possible Solutions |
| **Step 3** | **Research** Ideas/Explore Possibilities |
| **Step 4** | **Specify** Constraints & Identify Criteria |
| **Step 5** | **Consider** Alternative Solutions |
| **Step 6** | **Select** an Approach |

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| **Step 7** | **Develop** a Written Design Proposal |
| **Step 8** | **Create**/Make It Product |
| **Step 9** | **Test** and Evaluate |
| **Step 10** | **Refine** and Improve |
| **Step 11** | **Make** a Model or Prototype |
| **Step 12** | **Communicate** Processes and Results |