

Name _____ Date _____ Period _____

6th Grade
Introduction to Engineering
Midterm Study Guide

Engineering Design Process

1. Why is the Engineering Design Process used? _____

2. What are the steps of the Engineering Design Process? _____

3. What are constraints? _____

4. What are specifications? _____

5. What is a prototype? _____
6. What is the purpose of making a prototype? _____

Categories of Technology

7. What are the categories of technology? _____

8. Choose the most appropriate definition for each category of technology

Definition	Category (bio-related, communication, construction, energy/power, manufacturing, transportation)
Design and production of products	
Development of new structures	
Movement of people and goods	
Related to life	
The food of technology	

9. Choose the most appropriate category for each given technology.

	Category (bio-related, communication, construction, energy/power, manufacturing, transportation)
Automobile	
Bridge	
Chair	
Crane	
Escalator	
Wind mill	
Hydroelectric turbine	
Escalator	
X-ray	
MRI	

10. Choose the most appropriate category for each given technological career.

	Category (bio-related, communication, construction, energy/power, manufacturing, transportation)
x-ray technician	
Farmer	
Journalist	
Lineman	
Pilot	
Production manager	
Heavy equipment operator	