

## **Pulleys and Gears Test Review**

Use your science notebook to help you answer the following questions.

1. Define the following:
  - a. Force
  - b. Motor
  - c. Torque
  - d. Load
  - e. Effort
  - f. Work
  - g. Axis
  - h. Gear Train
  - i. Revolution
  - j. Advantage
2. What are the 3 types of pulleys? Explain each one.
3. What is a mechanical advantage and how do you calculate it?
4. What are the different types of gears and what do they do?
5. What is the difference between a driven gear and a human force gear?
6. Explain how a gear train works.
7. Explain how gears work on a bicycle and how we can use them to our advantage.
8. Provide examples of both pulleys and gears in the real world and how they help us in our daily life.
9. How do gears and pulleys affect the environment?