

Name \_\_\_\_\_

## Mechanics of a Pulley

### Open-Ended Response Questions

1. Imagine a scenario in which you need to lift a heavy box onto a high shelf. Explain how you could use a pulley system (fixed or movable) to make this task easier.
2. Discuss the importance of pulleys in modern construction projects. How do pulley systems like block and tackle contribute to the construction industry?
3. Compare and contrast the functions of a fixed pulley and a movable pulley. Provide examples of situations where each type of pulley would be the most effective choice.
4. Why do you think pulleys have been used by humans for centuries? How have they impacted our ability to perform various tasks throughout history?

