Name _____

Cracking the Code of Mechanical Advantage: How Force Gets a Boost!

Open-Ended Response Questions

1. Imagine you are designing a simple machine to help people lift heavy objects more easily. What type of simple machine would you create, and how would it work?

2. Discuss a situation where increasing the distance over which you apply force would be more advantageous than reducing the force needed. Explain your reasoning.

3. How do you think understanding mechanical advantage can benefit people in their daily lives, even if they don't work in fields related to engineering or physics?

4. Think about a famous building or landmark that required the use of various simple machines during its construction. Describe how these machines were likely employed to make the construction process smoother and more efficient.

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