

Name: _____

Date: _____



GENIUSCHALLENGE

POTENTIAL VS KINETIC ENERGY

1. What are some observations we can make to determine if something has energy?

2. When an object moves, where does the energy come from? _____

3. Where does a spring in a ball point pen or a pogo stick get its energy? _____

4. Explain how the end ball on the right of a Newton's cradle moves when the end ball on the left was lifted and released. _____

5. Why do the balls of the Newton's cradle eventually stop? _____

6. How could you decrease the amount of energy an object has? _____

7. The relationship between kinetic energy and speed is _____ proportional.

8. A graph of KE vs the mass of an object is _____.

9. In order for a roller coaster to work, why does the hill the cart climbs need to be higher than the top of the loop? _____

10. What are two ways engineers use their understanding of KE and PE to make their designs better/safer?
