

7.1 Unit test study guide

1. What 2 factors affect kinetic energy?
Speed and Mass
Speed effects it more
Need to know speed and mass to know which has more KE
2. If 2 objects have the same speed and the mass is different, which object will have the most kinetic energy?
The one with the most mass
3. What would increase the attractive electric force that one object exerts on another?
Increasing the strength of the charge
4. What is potential energy? When does an object have the most potential energy?
The energy of position (stored energy), at its greatest height
5. What happens to the potential energy and kinetic energy of an object as it falls?
Kinetic energy is increasing and potential energy is decreasing
6. What causes energy to change in a system?
A force
7. If the kinetic energy of object 1 is greater than the kinetic energy of object 2. Which is moving faster? How do you know?
We need to know the mass of each object before we can know which is going faster
8. How can you get two like ends of a magnet to touch?
Apply a force
9. What is a characteristic of both magnetic and electric forces?
They can both be attractive
10. What happens to the force magnets exert on each other as they are pulled apart?
The force decreases

11. You will need to do a CER

The claim starts.....I believe

Evidence.....Because

Reasoning.....Therefore

12. Be able to read and interpret a graph (look at class pendulum examples)

13. Be able to make a bar graph including the title, labels and scale.

14. What are some difference between electromagnet construction and their effect on the strength of the electromagnet?

More batteries, adding more wraps of wire, adding more batteries and more wire increases the strength