Ch 12-4: What is friction? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ch 12-5: How can friction be changed?

Basic Physical Science Notes 2018

Key Terms:

1. Friction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EX:

1. Friction is a \_\_\_\_\_\_\_\_\_\_, so it is measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. If the force of friction is equal to the applied force, then the forces are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This means the object ( will OR will NOT ) have a change in motion.

EX:

1. If the force of friction is less than the applied force, then the forces are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This means the object ( will OR will NOT ) have a change in motion.

EX:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ friction is when an object is \_\_\_\_\_\_\_\_ moving.  
   EX:
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ friction is when an object is \_\_\_\_\_\_\_\_\_\_\_\_ across the desk.   
   EX:
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ friction is a way to reduce sliding friction by adding wheels.   
   EX:

Short Answer:

1. How can friction be useful? List 2 examples.
2. How can friction be harmful? List 2 examples.
3. We have gotten a ton of rain lately. This makes it difficult for large farm equipment to make their way through the muddy fields. Would it be better to have more or less friction? Why?
4. If you have a large box with a sliding friction of 5 N, then how much force will you need to move the box?
5. In question #4, how could you decrease the amount of friction to make moving the box easier?
6. Why do soccer players and football players wear cleats? How does that help them be more successful?
7. My children love to wear socks and “ice skate” at home. Would you suggest they “skate” on carpet or wood floors? Why?