Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_ Week4 Distance Learning

**DESCRIBING FORCES**

Use the resources on Mr. Hanna’s website to complete the following assignment.

VOCABULARY:

1. FORCE -
2. NET FORCE -
3. UNBALANCED FORCES –
4. BALANCED FORCES –
5. APPLIED FORCE –
6. GRAVITY –
7. NORMAL FORCE –
8. FRICTION –

SHORT ANSWER:

1. How are forces described (two pieces of information)?
2. Compare contact forces with non-contact forces and give examples of each.
3. How do balanced forces affect motion? How do unbalanced forces affect motion?
4. Which objects exert a gravitational force on the objects around them?
5. What two variables affect the strength of the gravitational force between two objects?
6. If gravity is pulling down on you now as you are sitting on your seat, why aren’t you falling down? (include the concepts of balanced/unbalanced forces in your answer)
7. What two variables affect the friction force between two objects?
8. Which direction does the friction force act compared to the motion of the object?

PRACTICE:

1. Draw a force diagram of a box resting on the floor.
2. Draw a force diagram of the same box being slid across the floor at a constant speed.
3. Are the forces balanced or unbalanced in #17 and #18 above? How can you tell?
4. What would happen to the box in #18 if it was not experiencing balanced forces (if the applied force pushing it forward was stronger than the friction force)?