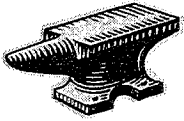


Name: \_\_\_\_\_ Period \_\_\_\_\_

## BILL NYE MOTION WORKSHEET

1. Listen carefully to the opening song and fill in the blank:

**Inertia** is a property of \_\_\_\_\_



2. What **force** was holding the **anvil** up? \_\_\_\_\_

3. What **force** is pulling the **anvil** down? \_\_\_\_\_

4. When he flicked the card where did the coin go to? \_\_\_\_\_

5. Whether moving or sitting still everything has \_\_\_\_\_

6. The men who were trying to move the boxes read that:

Nothing gets moved unless it is P \_\_\_\_\_ or P \_\_\_\_\_

**Newton's Three Laws of Motion** Bill goes through the three laws of motion. Fill in the blanks.

### Newton's 1<sup>st</sup> Law of Motion

7. Things at rest, stay at \_\_\_\_\_

8. Things in motion stay in \_\_\_\_\_ unless acted upon by an outside force.

### Newton's 2<sup>nd</sup> Law of Motion

9. Force = \_\_\_\_\_ times acceleration.

### Newton's 3<sup>rd</sup> Law of Motion

10. For every action there is an equal and opposite \_\_\_\_\_

\_\_\_\_\_ 11. What happened to the apple's weight as the plane dived toward the ground?

- A) Got large or heavier      B) got less or weightless

\_\_\_\_\_ 12. What happened to the apple's weight as the plane rose up towards the sky?

- A) Got large or heavier      B) got less or weightless

\_\_\_\_\_ 13. What do we measure mass in? A. meters      B. Liters      C. Grams

14. Listen to the song and fill in the blank: We are all \_\_\_\_\_.