Ch 13-4: What is Newton’s 1st Law of Motion? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Basic Physical Science Notes 2018

Key Terms:

1. Inertia: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Newton’s 1st Law of Motion: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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EX w/object starting at rest:

EX w/object starting in motion:

Short Answer:

1. What causes a book on a table to remain at rest?
2. According to Newton’s 1st Law of Motion, what will happen to an object at rest if no unbalanced force acts on it?
3. Which object has more inertia: a bowling ball or a balloon?
4. Why do baseball players “round” the bases instead of making sharp turns?
5. Why do you keep moving forward when the car slams on its breaks?
6. Push a roller skate across a smooth surface. Will the skate keep moving when you stop pushing? Explain.
7. Look at #6 again…what if you eliminate friction? Will the skate keep moving when you stop pushing? Explain.