

NAME:

PERIOD:

DATE:

Newton's 1st Law Homework #1

Answer all questions as best you can. Be specific. Be scientific.

Matching – Each is used once

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|------------------------|---|
| -3. ___ friction | A. any push or pull on an object |
| -2. ___ air resistance | B. an object's natural resistance to being moved |
| -1. ___ force | C. a force between two surfaces that resists motion |
| 0. ___ inertia | D. when air particles hit an object and resist motion |

Multiple Choice – Circle the one, correct answer

- Caleb wants to push a heavy box across the room. His push will be a...

A. mass	B. force	C. neither one
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- He pushes on the box, but it doesn't move. Caleb didn't push hard enough to overcome the box's...

A. friction	B. inertia	C. neither one
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- Lonnie pushes on the box with Caleb. The box slides across the floor. The box moves because...

A. The dudes used friction to move it	B. The dudes unbalanced the forces on the box
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- When they stop pushing, the box stops moving. Why?

A. friction	B. inertia	C. neither one
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- In outer space, if the dudes got the box moving...

A. it would keep moving forever	B. it would keep speeding up forever
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- As the dudes started to move the box, Sydney and Kallysta start pushing on the opposite side. Both the dudes and the ladies are pushing, but the box doesn't move. This is because...

A. the ladies are stronger than the dudes	B. the forces are balanced again
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