

Newton's Laws Exposition

Newton's Three Laws

- 1) An object in motion will stay in motion unless acted upon by another force; an object at rest will stay at rest unless acted upon by another force (Law of inertia).
- 2) The greater the force the greater the acceleration ($F=ma$).
- 3) For every action there is an equal and opposite reaction.

Station #1 – Coin Activity

| <u>Equipment</u> | Directions |
|------------------|---|
| Cup | 1) Place an index card on top of an empty cup |
| Index card | 2) Place a coin on the card |
| Coin | 3) Flick the card with your finger |
| | 4) Continue until the coin drops into the cup |

Observations

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Questions

- 1) Which of Newton's Laws are demonstrated by this station?
- 2) Why does the coin fall into the cup?
- 3) How would you modify this station so the coin travels with the index card?