

Force and Motion Lesson Cluster

VOCABULARY

| Word | Definition | Lesson |
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| balanced force | A balanced force occurs when the forces acting on an object combine to give zero force. There is no change in motion of an object. | Balanced and Unbalanced Forces |
| force | A push or pull. | Forces: Starting Things Moving |
| force direction | The direction in which the force acts on an object. | Forces Have Strength and Direction |
| force strength | The magnitude of a force. How small or large a force is. | Forces Have Strength and Direction |
| friction | A force that slows something down by pulling on it. It occurs when two objects rub against each other. It is usually stronger if one of the surfaces is rough, soft, or sticky. | Examining Forces |
| gravity | The downward pull on all objects toward the center of the earth. | Gravity is a Force |
| horizontal force | A force that pushes or pulls in a side to side, or back and forth direction. | Examining Forces |

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| motion | Going from one place to another. | Forces: Starting Things Moving |
| observe | To use your senses to pay close attention to something and notice many details about it. | Forces: Starting Things Moving |
| pattern | Something that repeats regularly. | Predicting Motion |
| periodic motion | Motion that repeats. | Predicting Motion |
| predict | To make an educated guess about what might happen in the future. | Predicting Motion |
| stationary | Not moving. | Balanced and Unbalanced Forces |
| unbalanced force | An unbalanced force occurs when there is a change in motion of an object. | Balanced and Unbalanced Forces |
| vertical force | A force that pushes or pulls in an up or down direction. | Examining Forces |