

8-20-12
Milan
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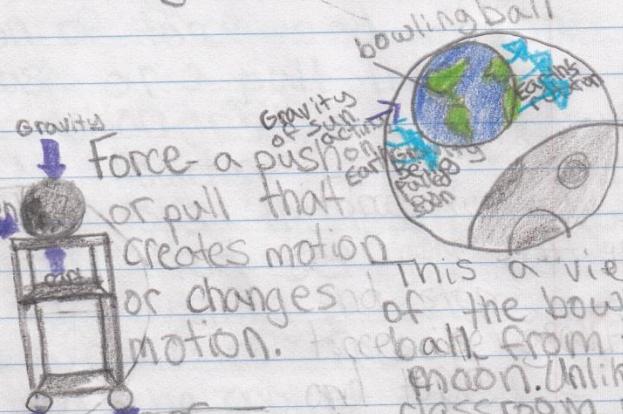
Force and Motion Demonstration

Learning Target:

- form a basic working definition of force and motion.

Key - Motion
- Force

Motion - change of location or position that occurs because of force.



Friction

floor

floor

This a classroom view of the bowling ball. From this perspective it can be argued that the bowling ball isn't moving because it isn't changing

location and from a classroom perspective you'd be right. Friction Hand that pushes Bowling Ball Whipped cream changes shape Wind Resistance Gravity As you can see the bowling ball is in motion across

the floor because Mr. Loucks's hand was the force that set it in motion.

I know that the bowling ball was in motion because it moved from the front to the back of the room.

These are the forces acting on the whipped cream on top of the bowling ball. As you can see the whipped cream changed shape because of the forces it changed location. A force acting on it, which means caused it to move, and the whipped cream was in motion, because of its changing shape.



The evidence that the whipped cream was in motion is that it changed location. A force caused it to move, and it changed locations over the floor.

Force and motion Demo

The purpose of the force and motion demonstration was to form a basic working definition of force and motion.

Force is a push or a pull that sets an object in motion or stops it. One example of this is when Mr. Loucks's hand pushed the bowling ball across the room. Mr. Louck's hand was the force that set the bowling ball in motion by pushing it across the room, and the forces of friction and air resistance, and the cabinet slowed it down and stopped it. Another example of force definition of force, is when Mr. Loucks's hand hit the whipped cream on top. Again Mr. Loucks's hand was the force of the bowling ball, that caused the whipped cream to be set in motion and gravity and wind resistance caused the whipped cream to stop and change location. Motion is a change in location of position that occurs because of a force and is relative to perspective. One example of this is when the bowling ball was still and sitting on top of the cart. From a classroom perspective, it appeared that the bowling ball was in motion because it wasn't changing location. From a perspective of sitting on the moon, it would be obvious that the earth was in motion and so therefore the bowling ball was in motion. The evidence of

the fact that the earth is in motion is because the sun is in different locations of the sky throughout the day, and the forces acting on the earth are the sun's gravitational pull. From the force and motion demonstration, I learned the definitions of force and motion.