

Lesson 1: What is Energy?

Brain Building Broadcast: Let’s Get Moving!

Purpose

Watch the video located at any one of the following addresses:

<http://goo.gl/WQf5iQ>

<http://vimeo.com/79395231>

<http://www.youtube.com/watch?v=4u4mjw8LII0>

Questions:

Watch the video carefully. When the video gets to the first **stop sign, pause** and answer the following question:

1. The video shows the following objects: bus, bike, feather, disco ball, basketball, toy robot, and top. Which items involve energy and what types of energy?

Continue watching the video until you get to the **second stop sign. Pause** the video.

2. Rank the following in order from most to least energy and explain the reasons for your ranking.

Scenario	Rank 1-4	Explain why:
Moving Bus		
Spinning Disco Ball		
Spinning Top		
Moving Bike		

Your Progress:

- Mastery
- Proficient
- Developing
- Beginning



Continue watching the end of the video and then answer these questions:

As a car travels down a highway, it travels at a speed of 70 miles per hour. It burns fuel as it moves. What happens to the mass of the car as the fuel is burned?

How does this affect the kinetic energy of the car?

Julia enjoys bowling. One day, just for fun, she decided to try bowling with a volleyball instead of a bowling ball. Will this make it easier or harder to knock over the pins?

Explain your answer:
