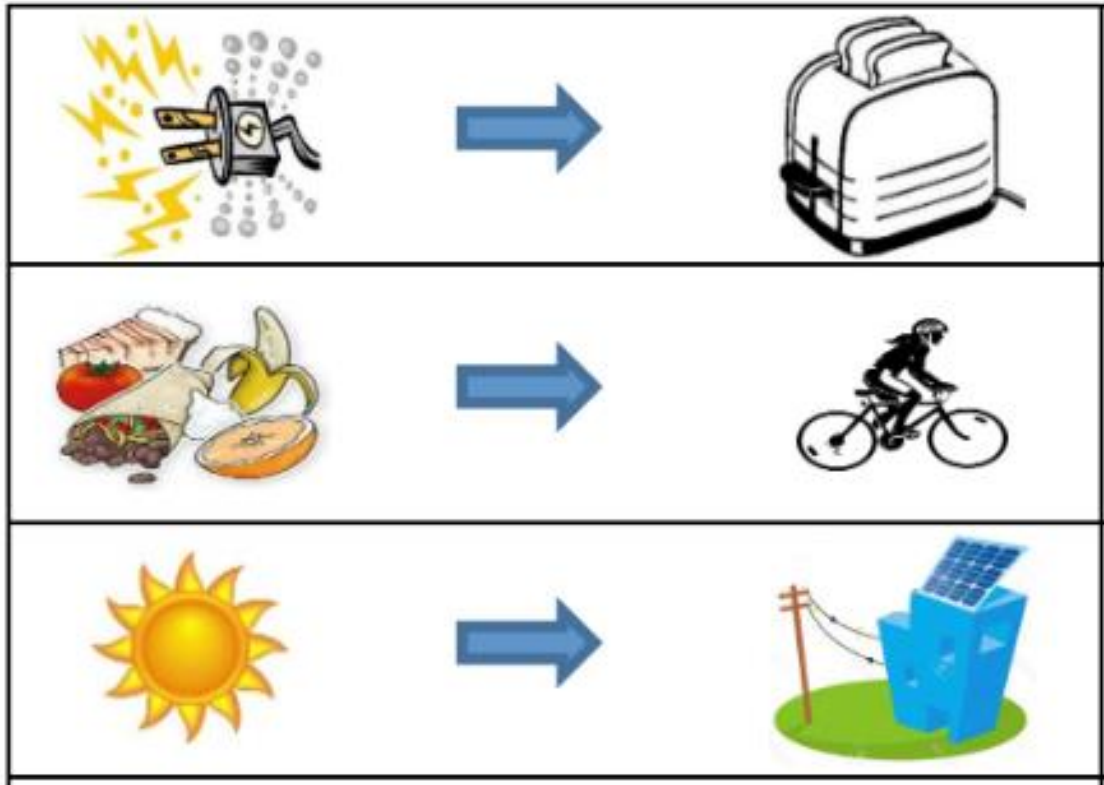


Science

Kinetic Energy Experiment

Today we will be using marbles to learn about kinetic energy and energy transfer. Here is a picture of what we will be learning about or doing today....



The materials needed for this lesson are...

- Ruler with divot
- Marbles
- Foam numbers 1&3
- Newton's cradle (optional)



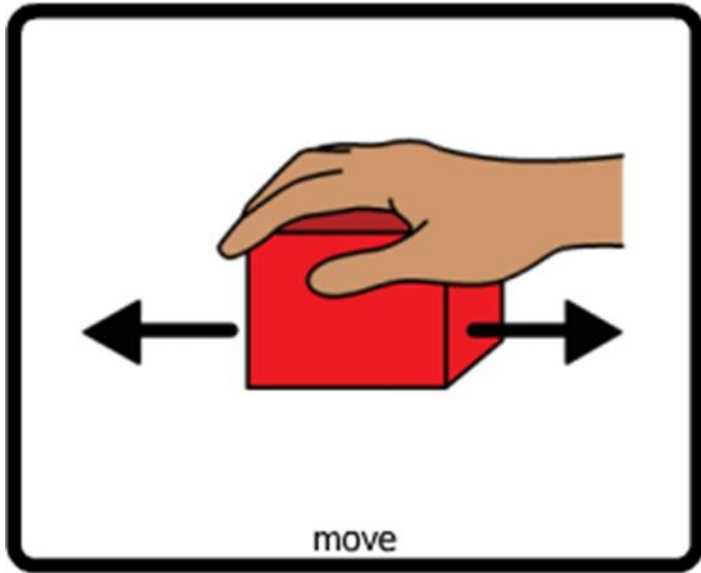
ruler



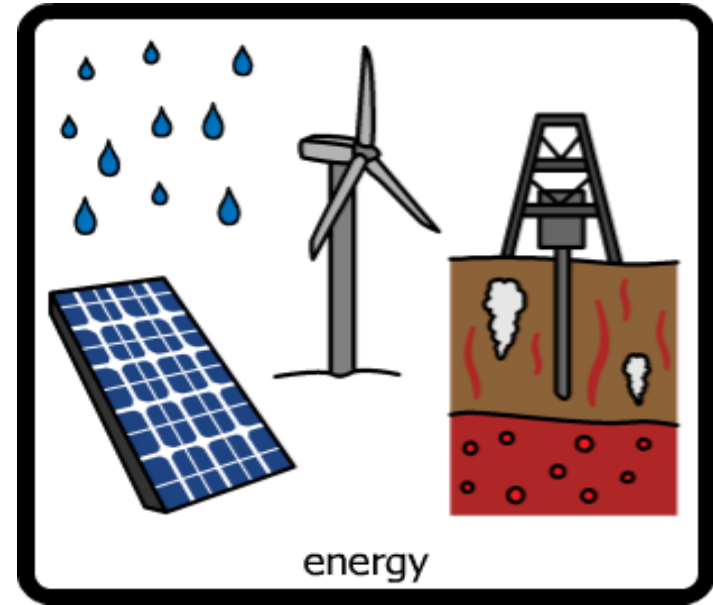
marbles

The vocabulary for today's lesson is....

Have students take turns moving an item.

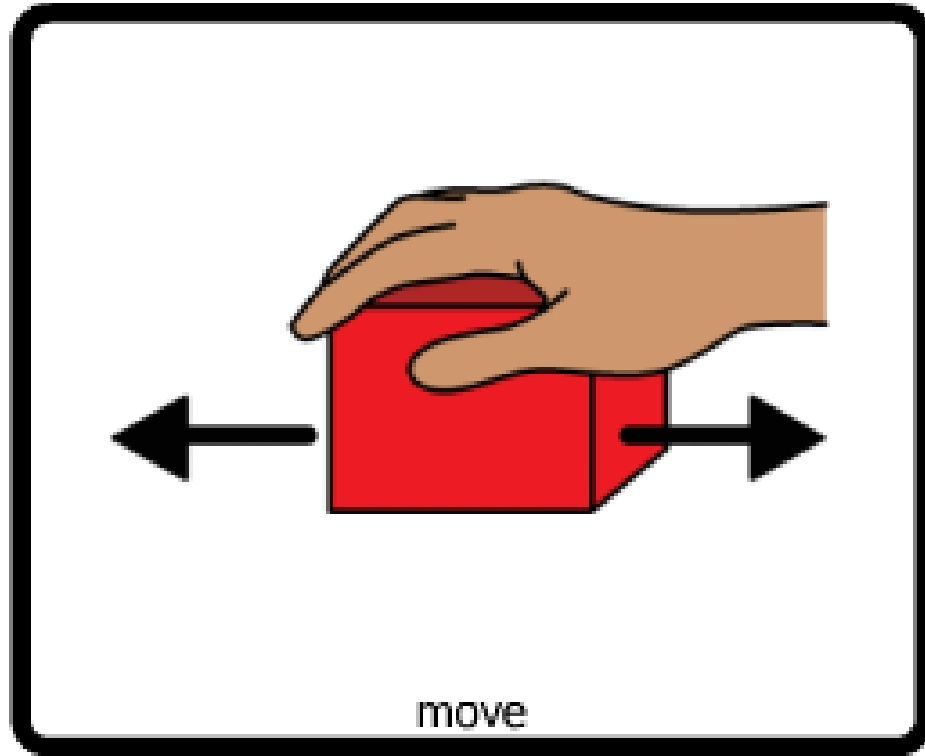


move- To change the place or position of something.



energy- power that is used to make something work

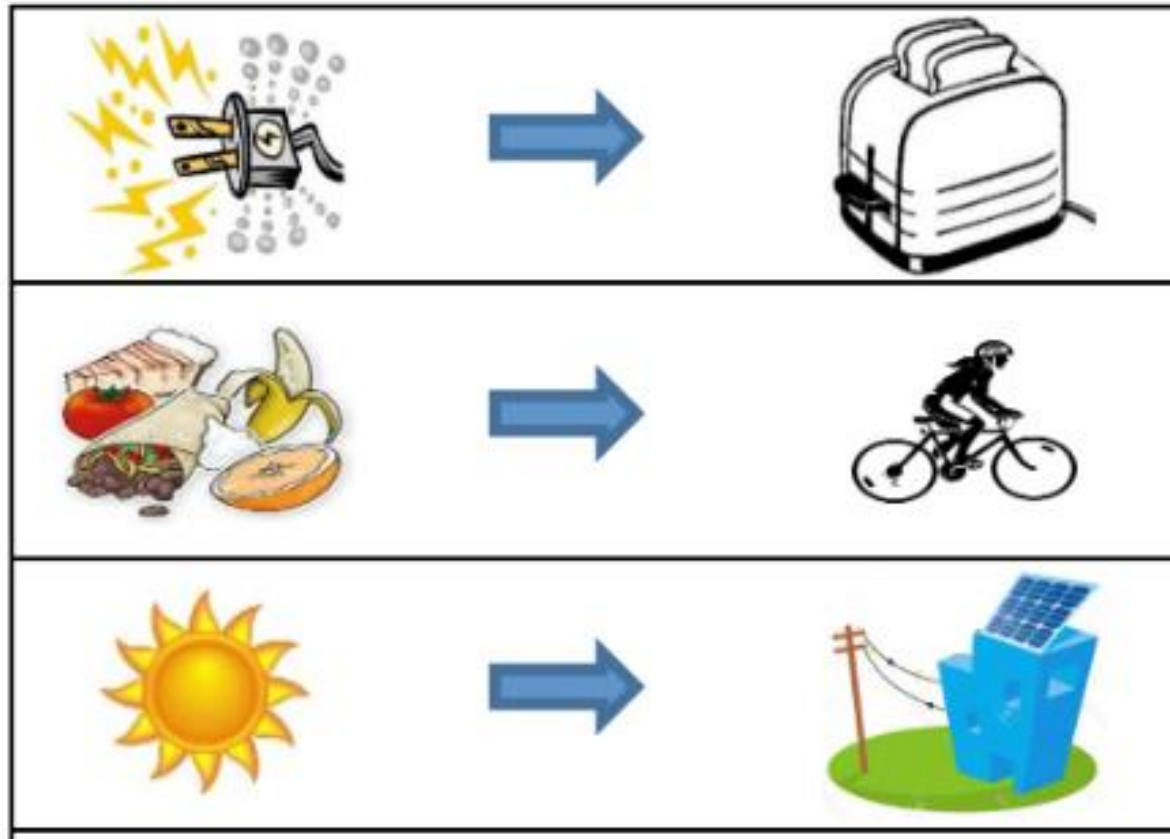
Kinetic energy is the energy made by something in motion.



Have students practice moving an item (large block, ball, etc.)

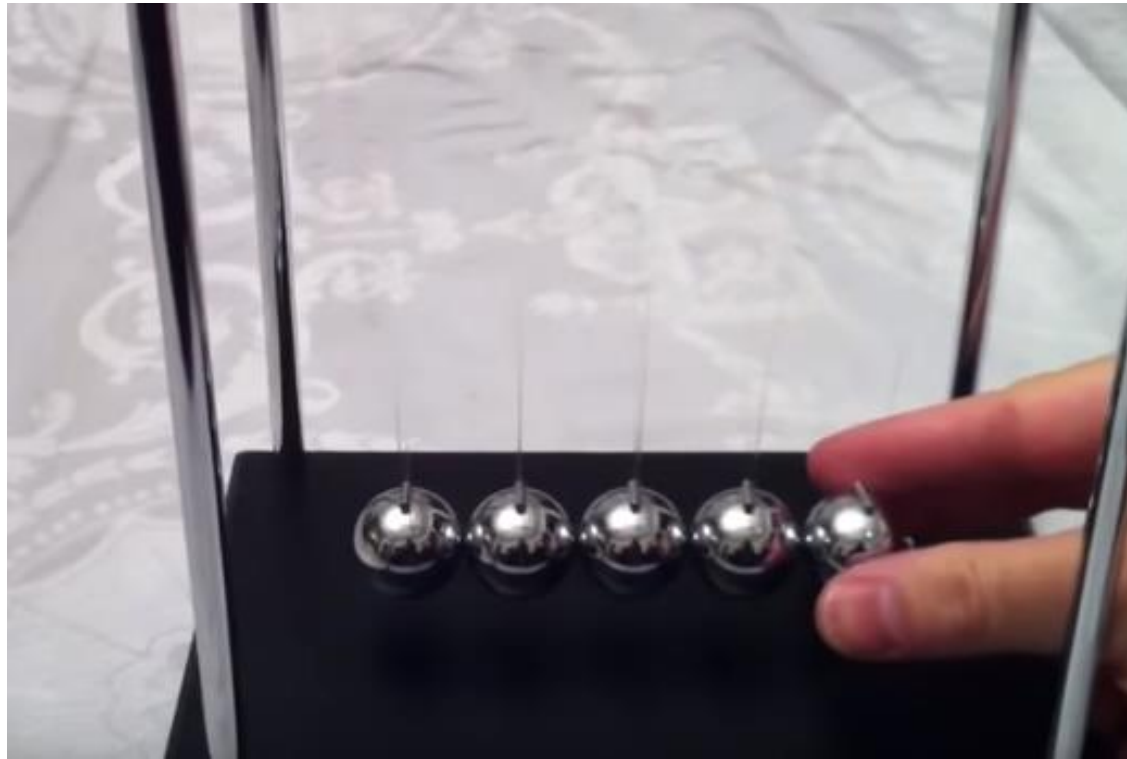
Kinetic energy can be transferred, or moved, from one item to another.

Here are some examples of energy transfer



Here is a video of something called “Newton’s Cradle”. watch the energy be transferred from one ball to another.

- <https://www.youtube.com/watch?v=0LnbyjOyEQ8>

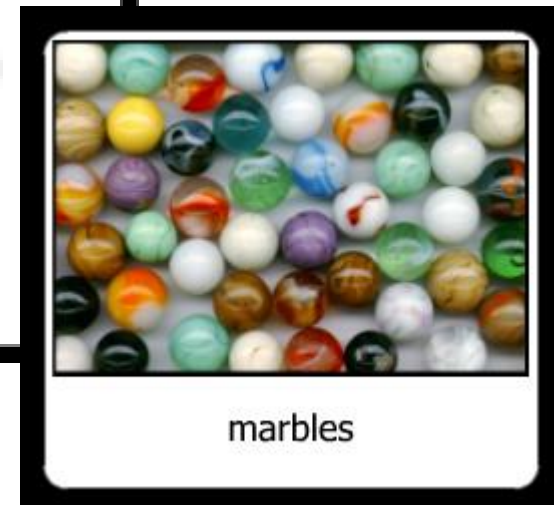
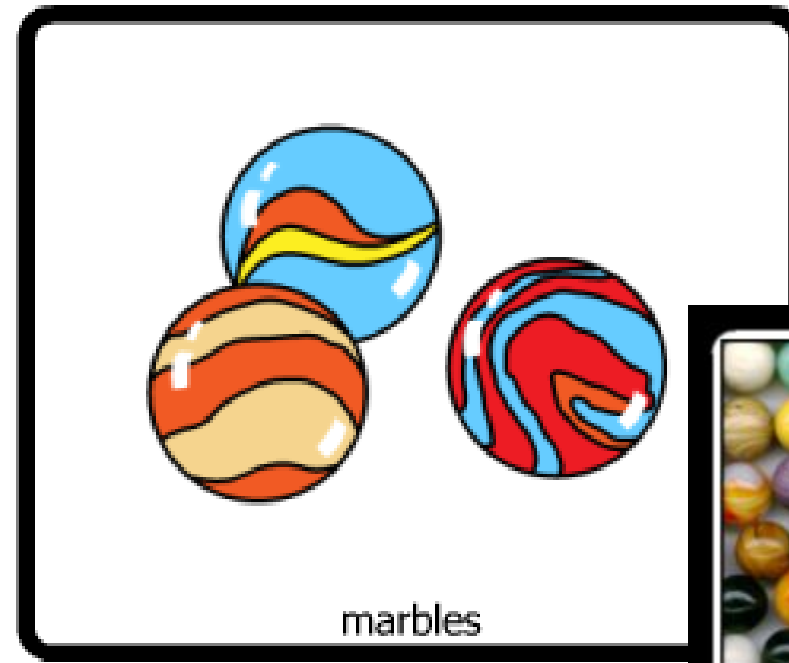
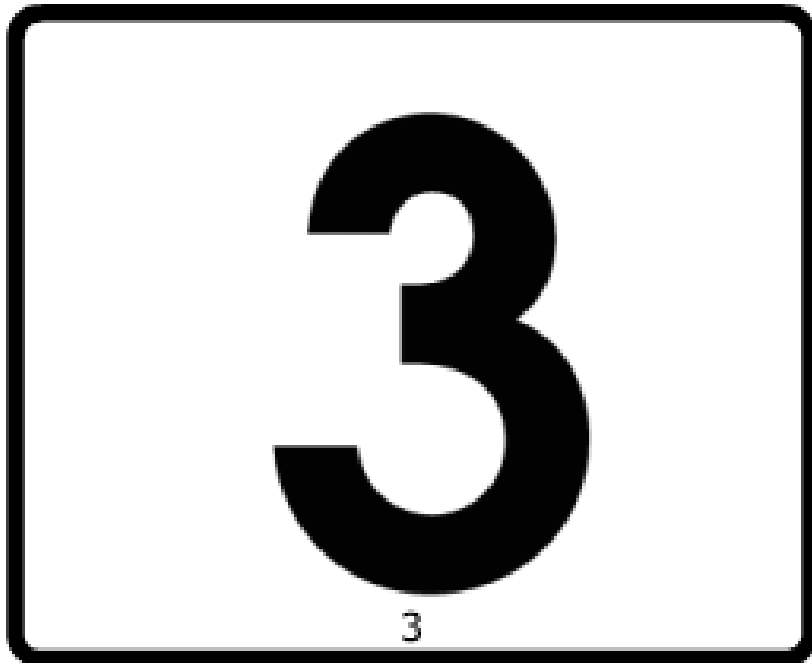


We will make something similar!

The steps for today's activity are...

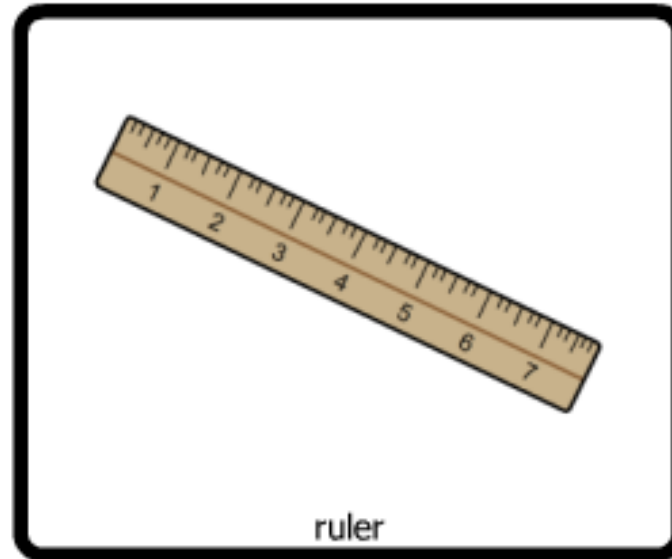
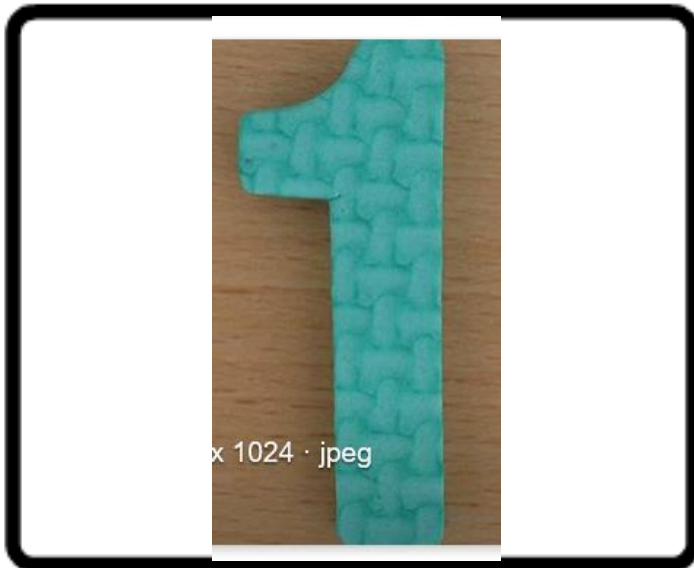
1. Touch a tactile number three and sing "around a tree around a tree that is how you make a three"

2. Count three marbles.



2. Count out 1 ruler

Have students touch the tactile number one. Sing, “Down we go and then we’re done, that is how we make a one.”



Place one marble on the end of the ruler in its recessed middle.

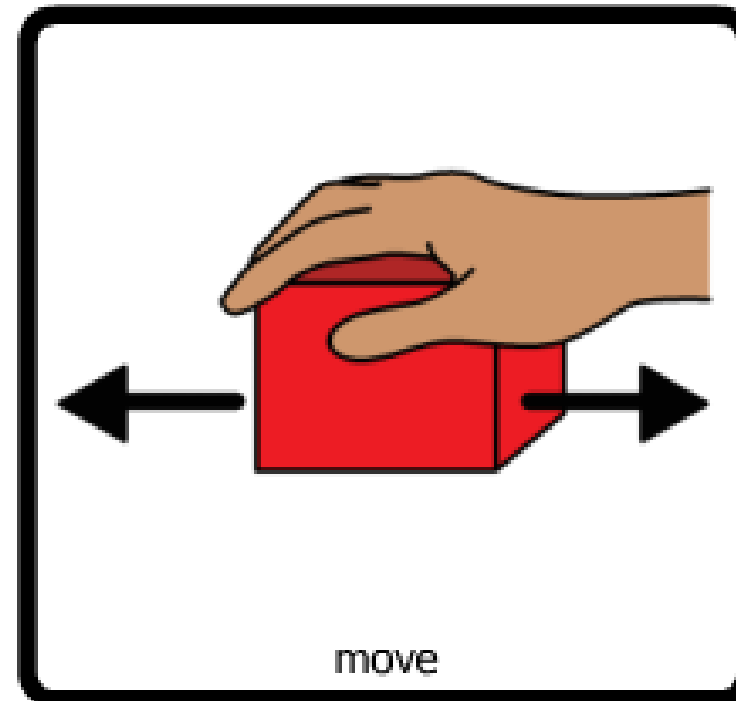
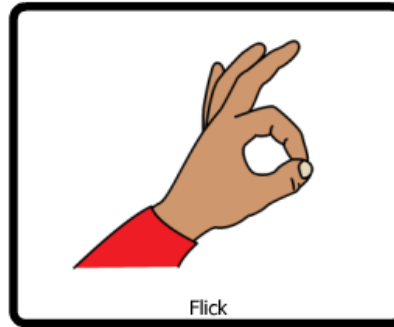


Place two more marbles in the middle; make sure they touch.



Hypothesis:

- What do you think will happen when we flick a marble down into the other marbles?



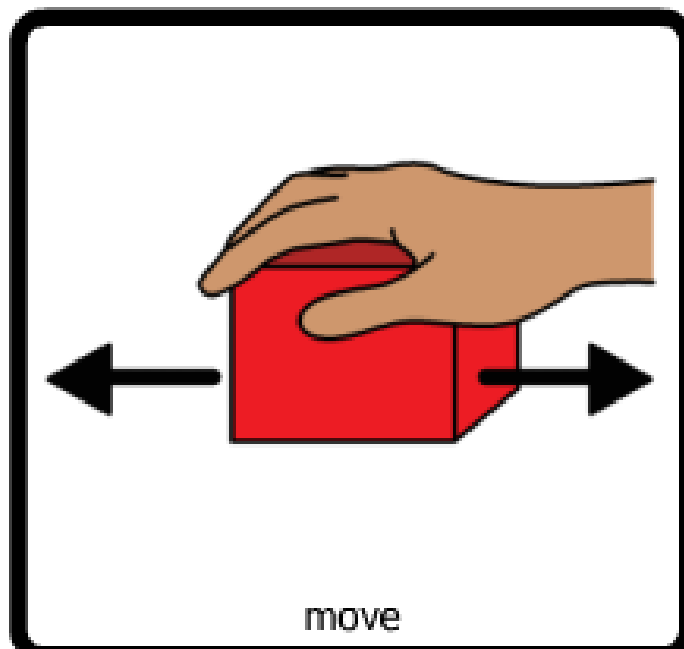
Lets try!

Make sure everyone
has a chance to try!



Quiz Questions:

What happened to the marbles?



Quiz questions

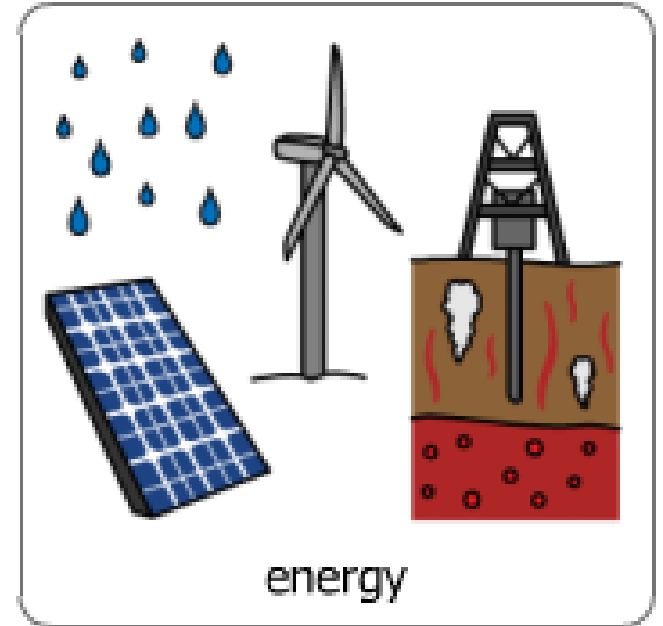
What made the marbles move?



plants

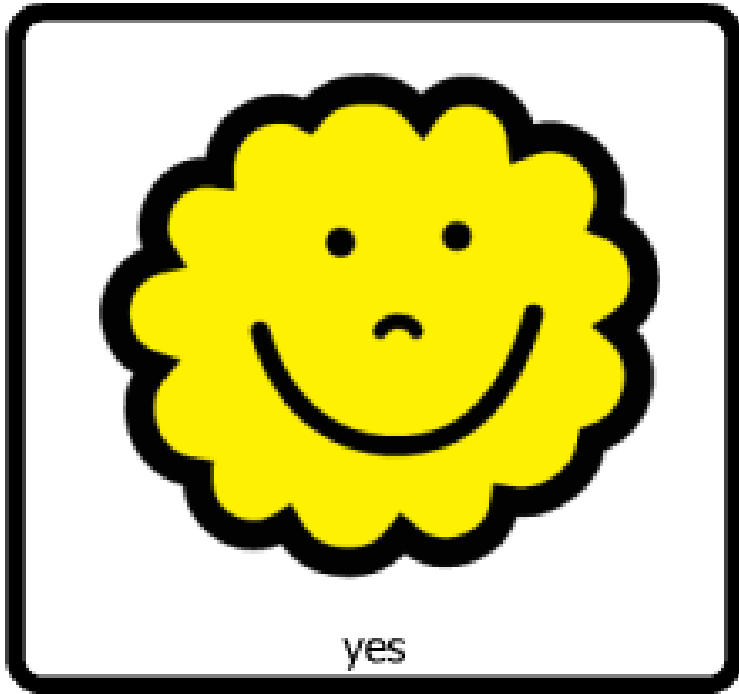


music

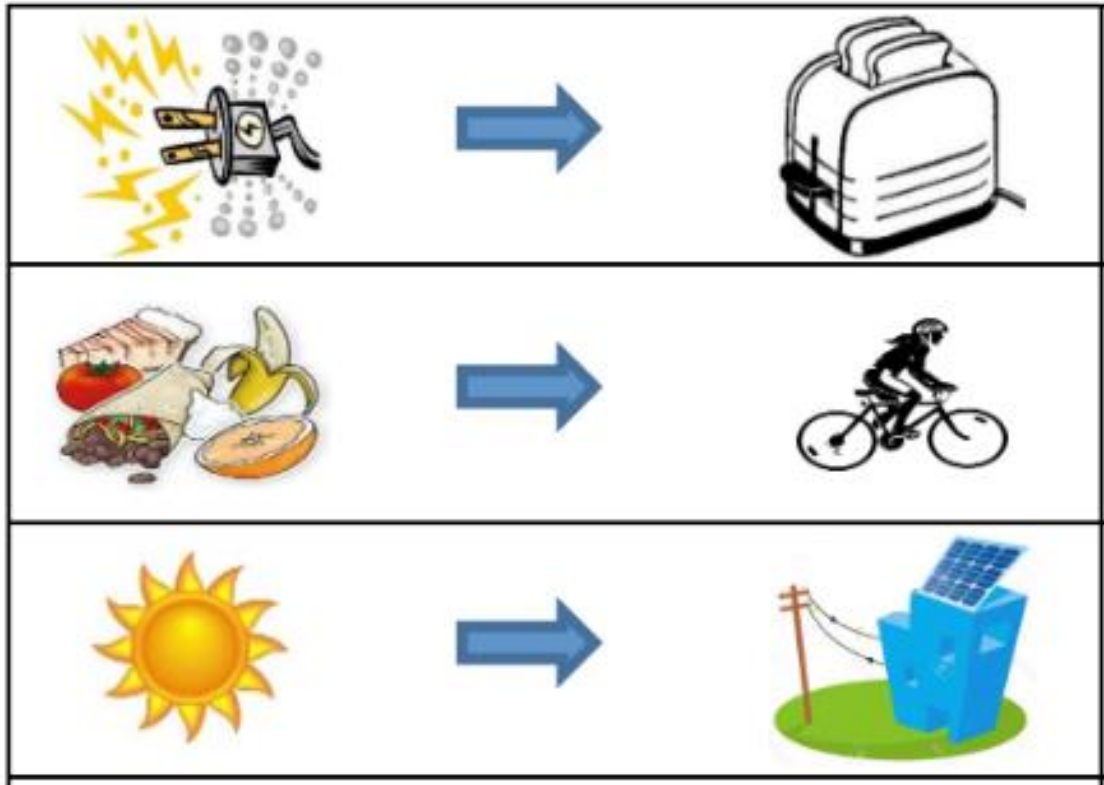


energy

Was your guess right?



Today we transferred kinetic energy from one marble to another.



We are ALL DONE!

- Teacher says “_____ is All Done! Time for _____!”
- Teacher says “Everyone check schedule!”
- Teacher changes the classroom schedule.
- Paras will assist individual students with checking schedules.

