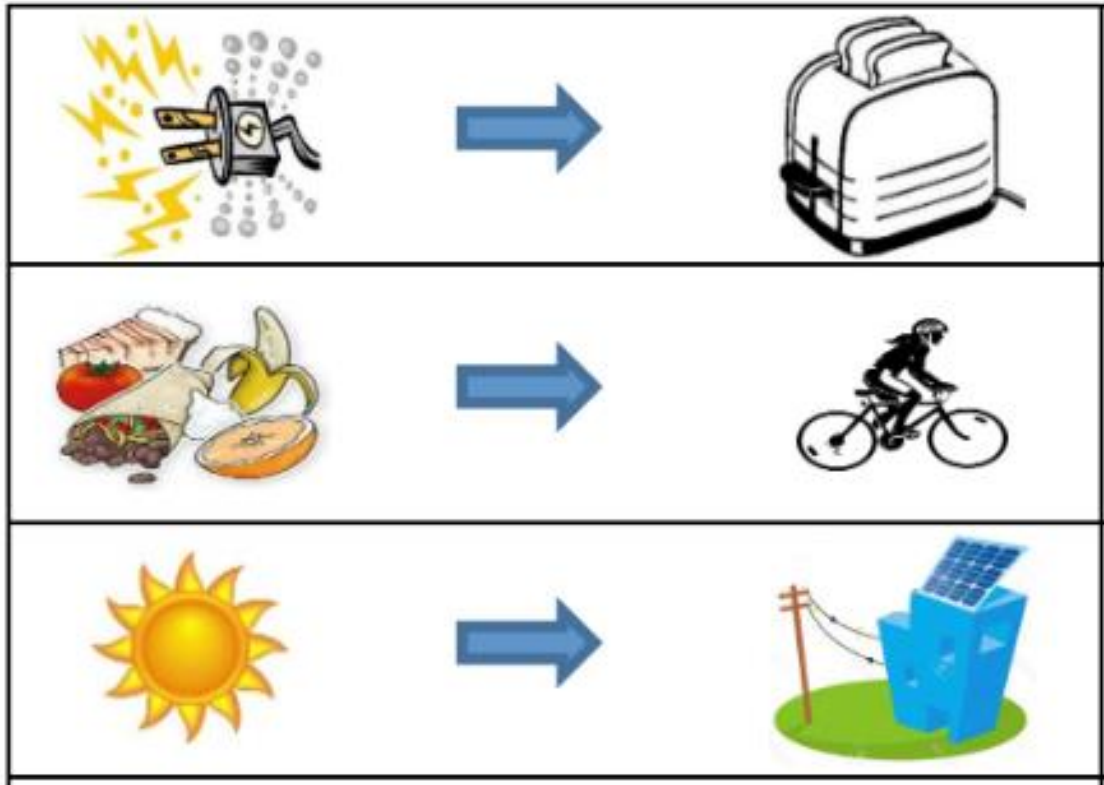


# Science

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)



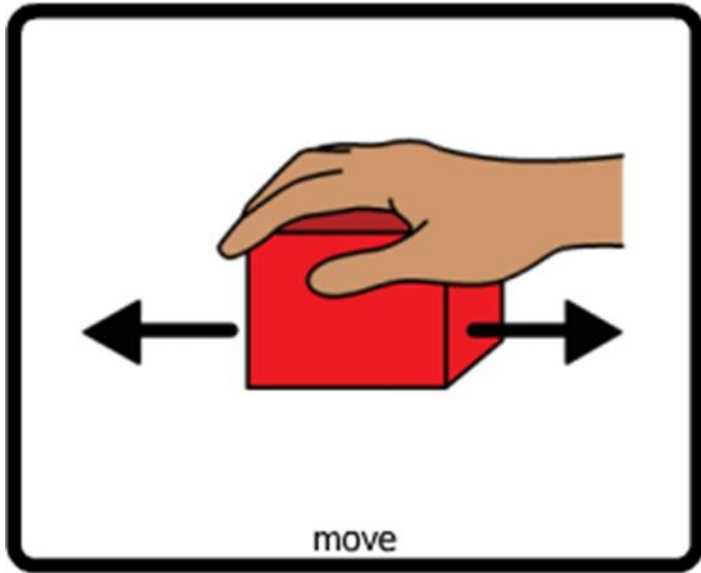
ruler



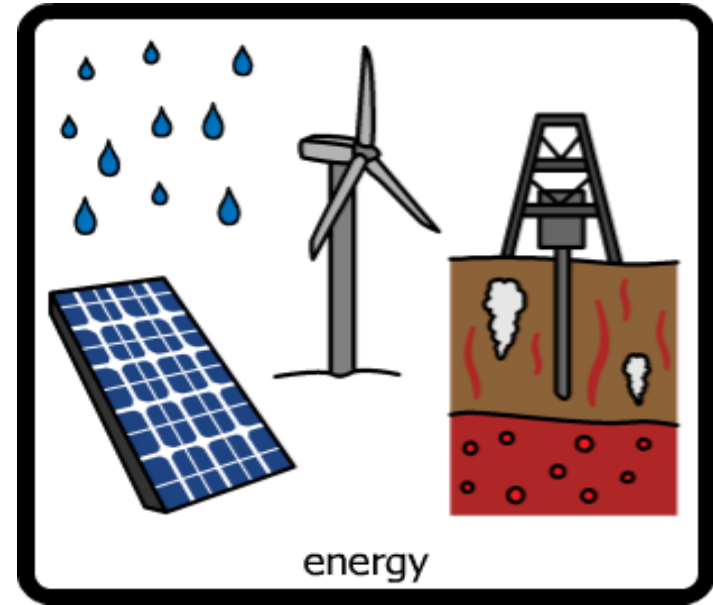
marbles

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

Have students take turns moving an item.

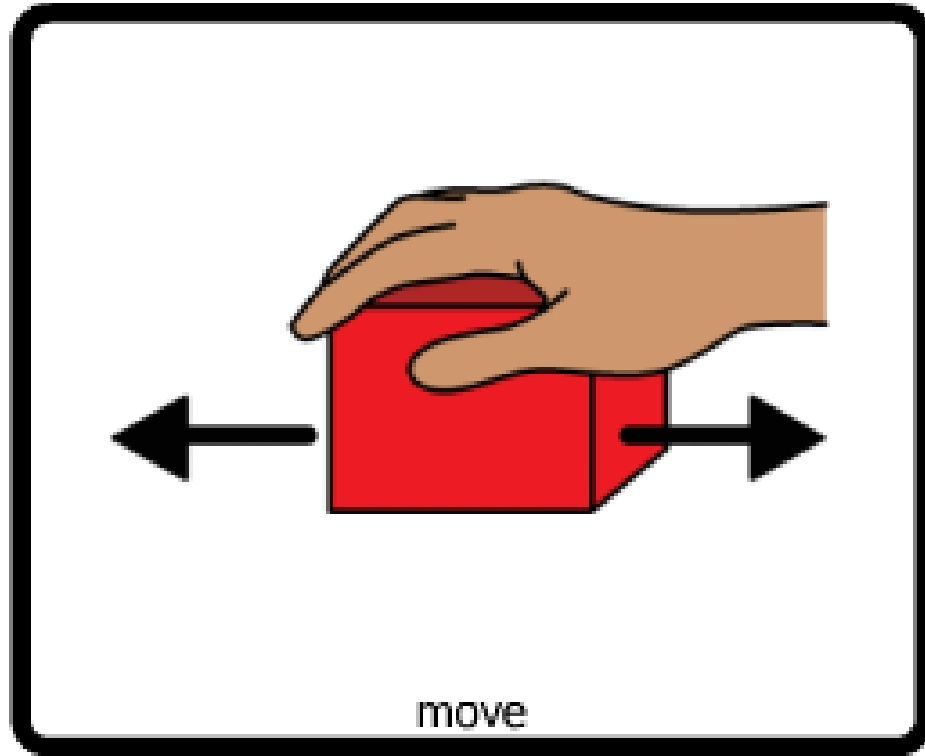


move- To change the place or position of something.



energy- power that is used to make something work

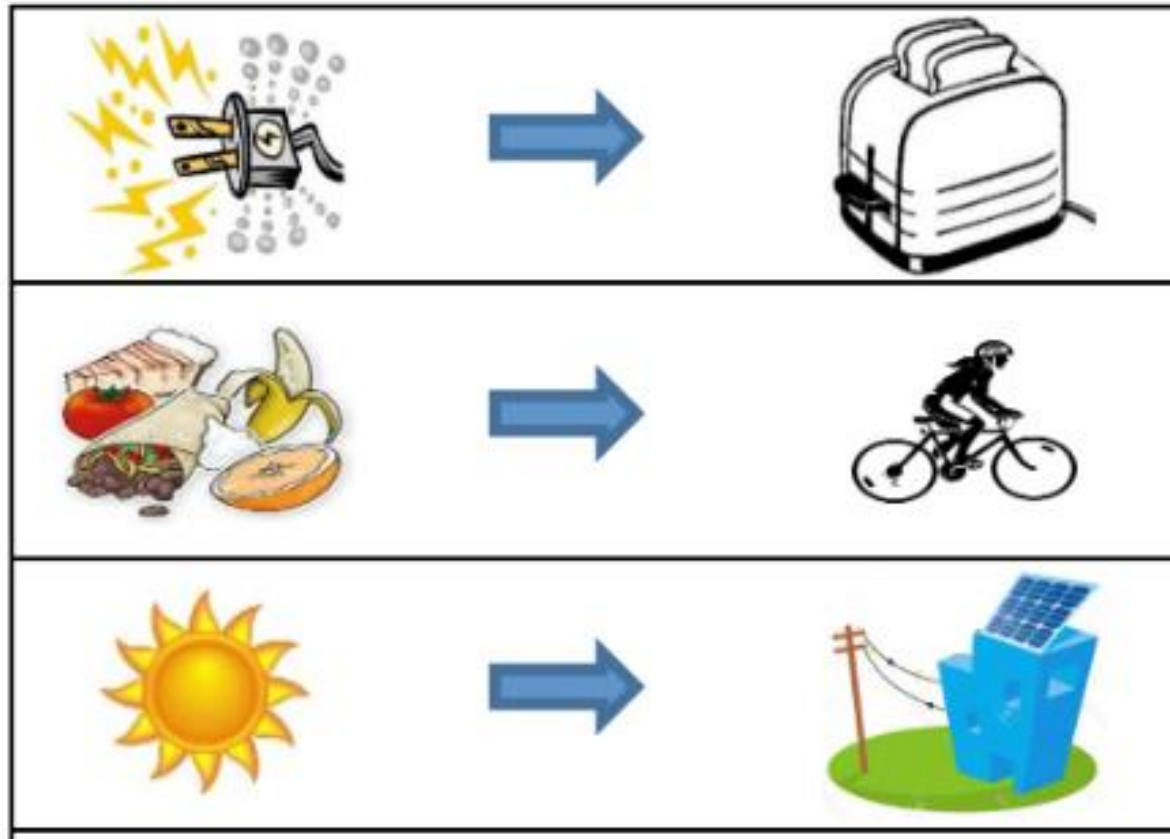
Kinetic energy is the energy made by something in motion.



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

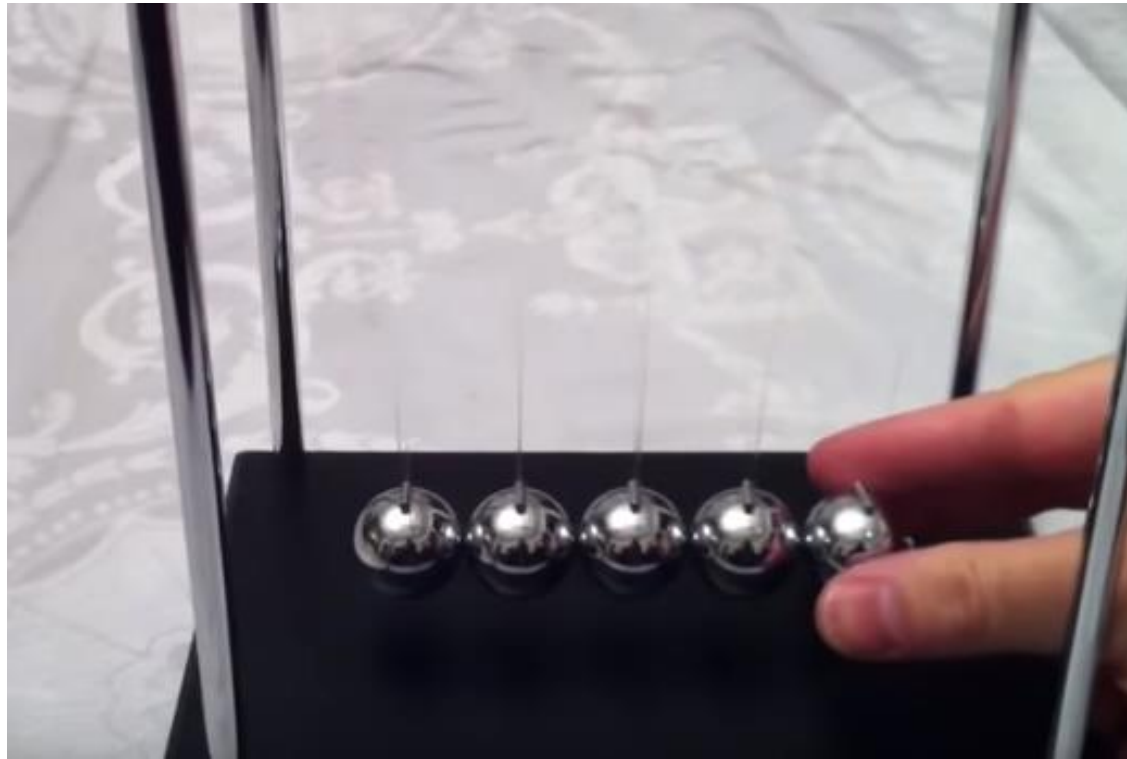
Kinetic energy can be transferred, or moved, from one item to another.

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>

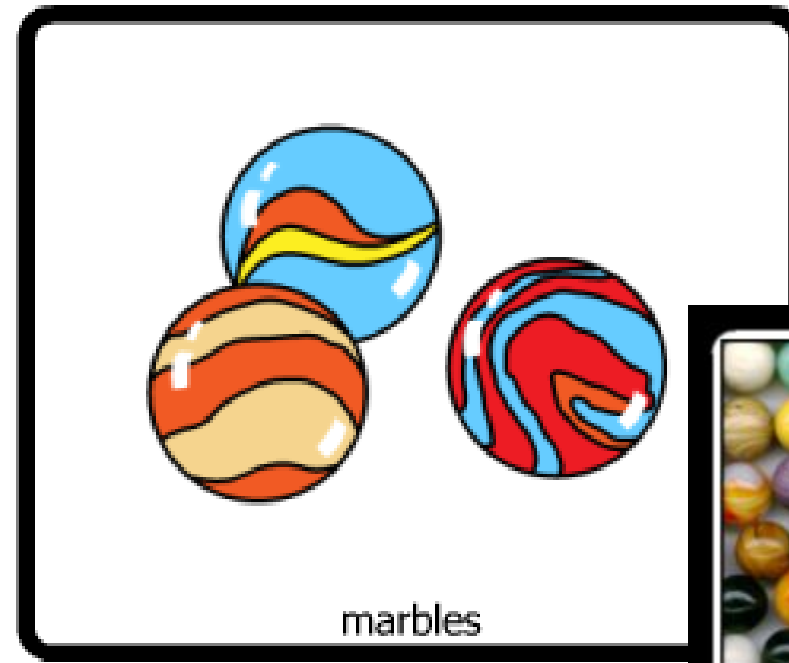
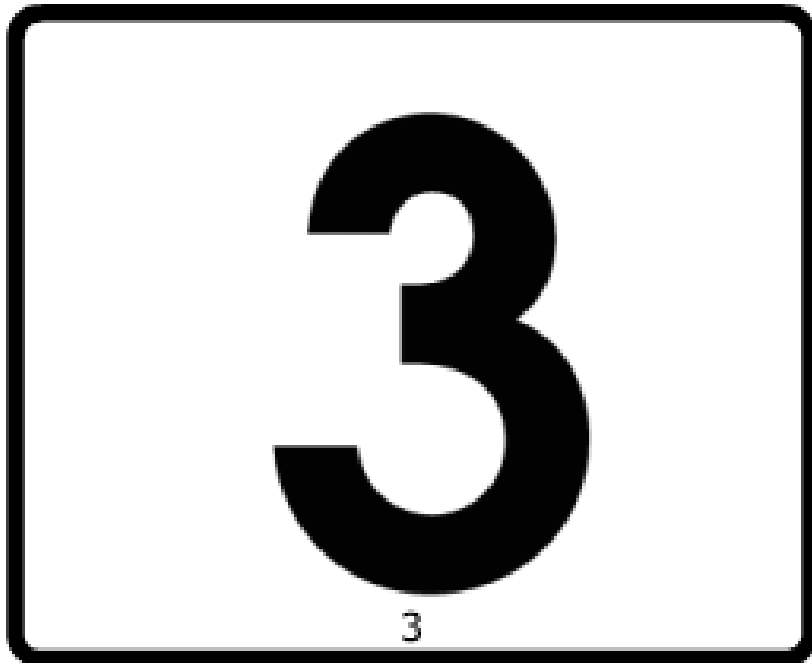


We will make something similar!

# 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"

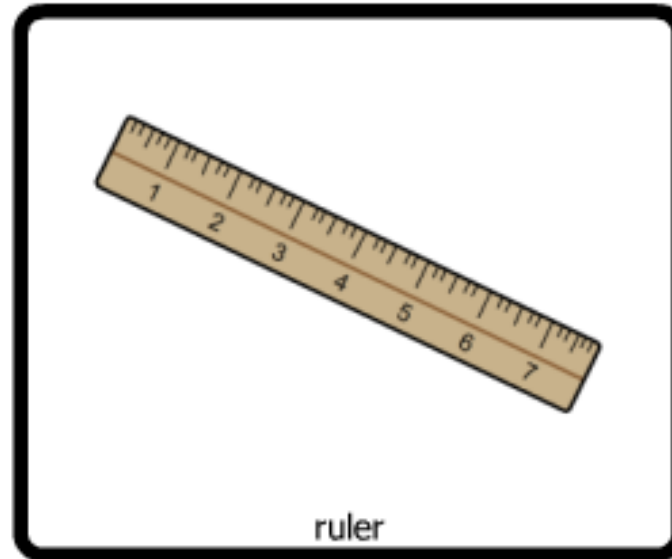
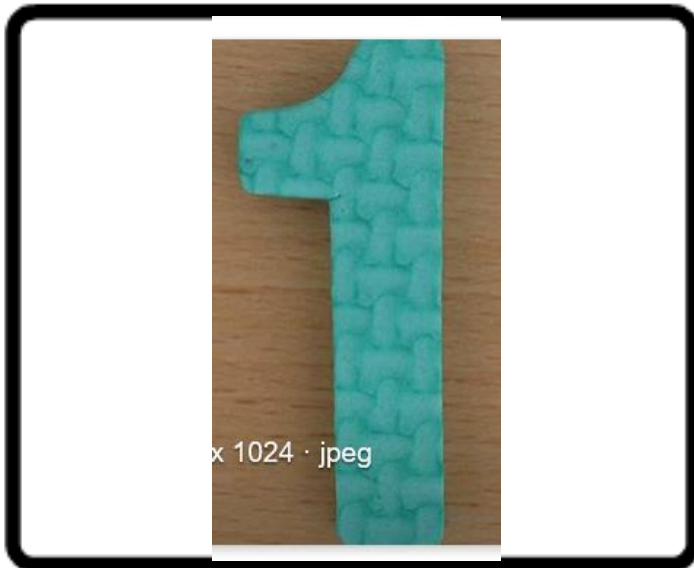
2. Count three marbles.





## 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.

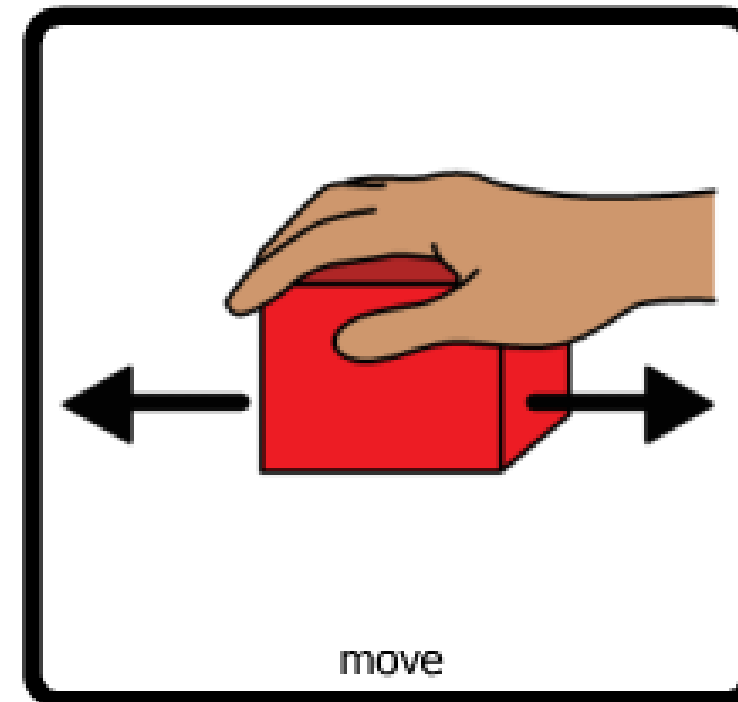
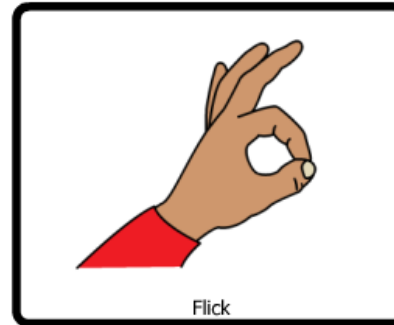


Place two more marbles in the middle; make sure they touch.



# Hypothesis:

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



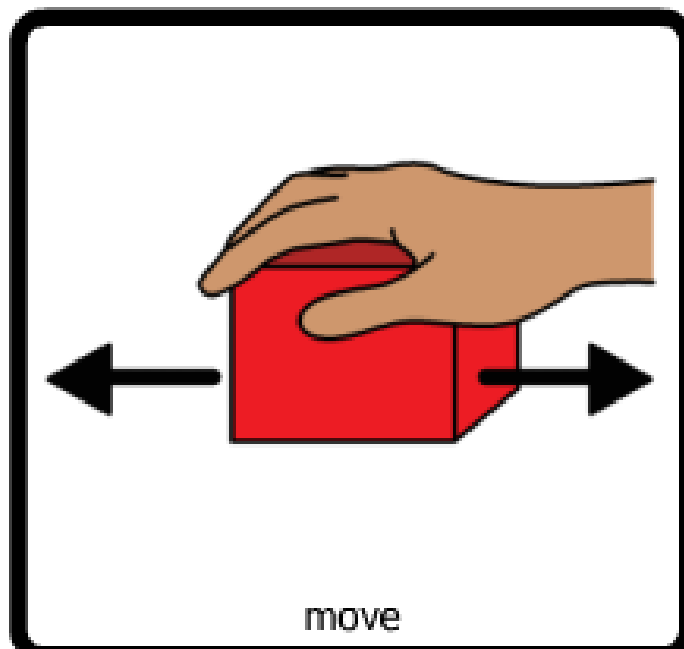
# Lets try!

Make sure everyone  
has a chance to try!



# Quiz Questions:

What happened to the marbles?



# Quiz questions

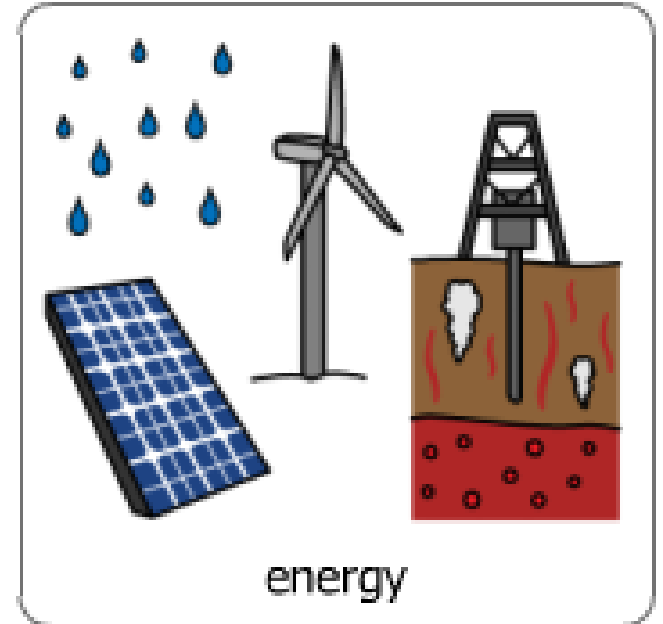
What made the marbles move?



plants

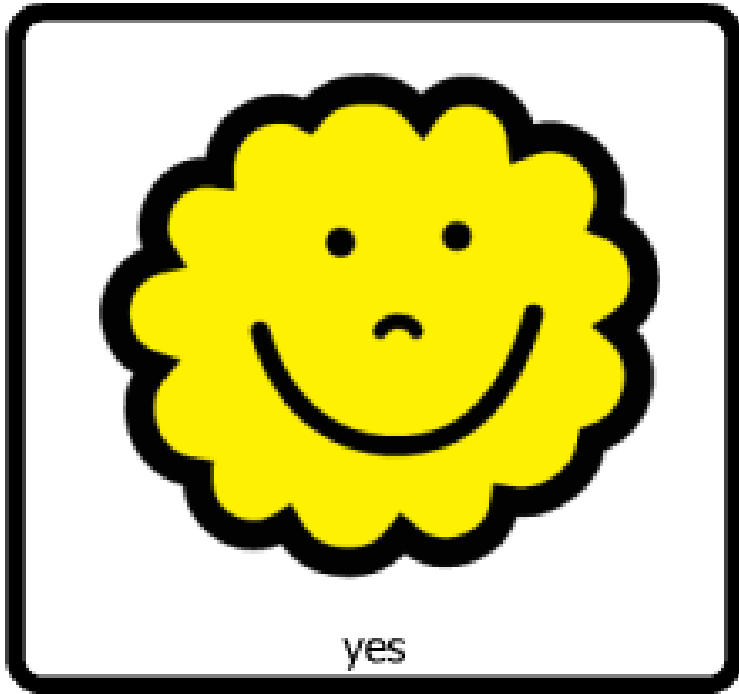


music

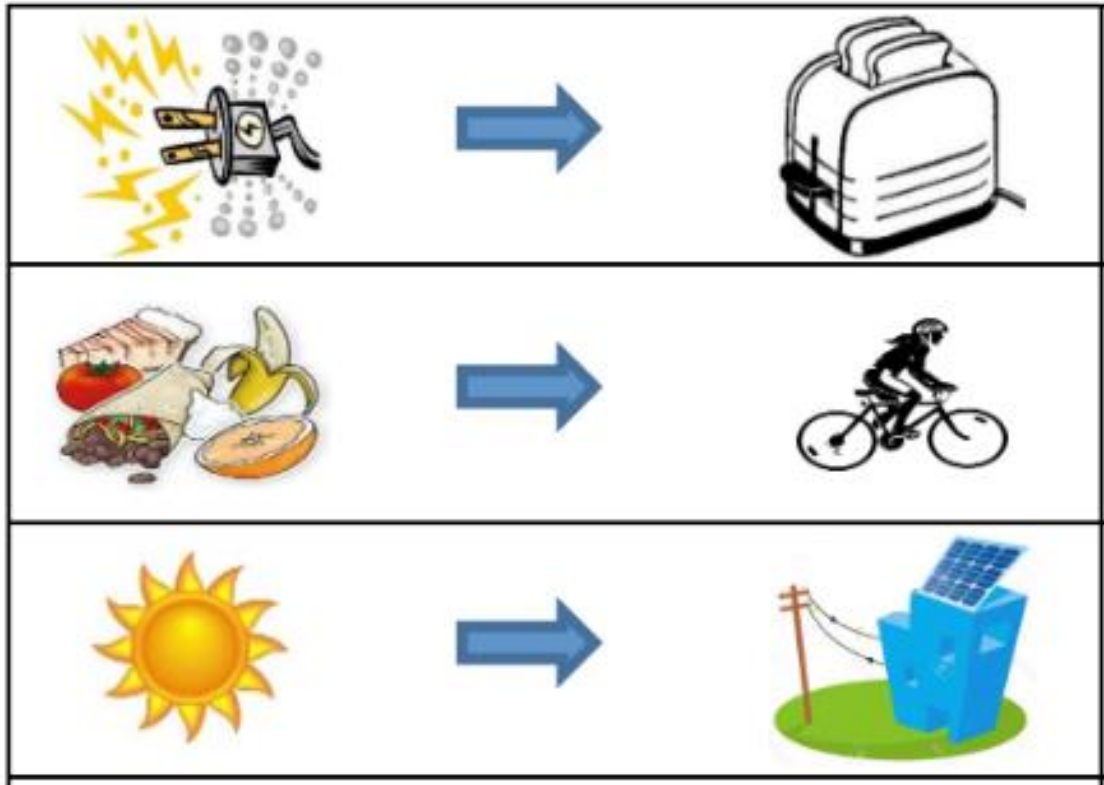


energy

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.

