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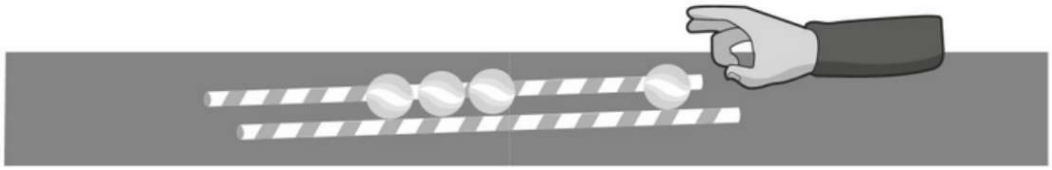
5 Flick the marble and observe what happens. Which marble(s) moved?

The flicked (first) marble hit the other marbles giving them energy to move. The last marble moved mostly.

6 Next, place a marble at the end of the path and three marbles in the middle.



7 What happens when you flick the marble at the end? Which marble(s) moved?

The flicked marble at the end will give energy to the other marbles making them move. The last marble on the other side will move most.

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8 Repeat the experiment with different numbers of marbles in the middle and the end. Record your observations in the table below.

Number of marbles at the end	Number of marbles in the middle	Number of marbles that moved
1	1	1
1	2	1
1	3	1
2	4	2

9 What patterns did you notice with the marbles?

The more marbles that are flicked (more energy) the more marbles will move.

(the number of marbles that are flicked are the same as the number of marbles that moved)

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10 Draw a diagram in the space below and label it to show how one marble transferred energy to another.

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II Fill in the blanks with the following words to make conclusions for this activity.

energy	move	rolling	stops	transferred

energy is required to make things move. When the rolling marble hits the second marble, it stops rolling. The energy from the rolling marble is transferred to the second marble and then to the third marble. Energy is finally transferred to the fourth marble to make it move.