Released Testlet

Science 8.PS.Energy-2 T

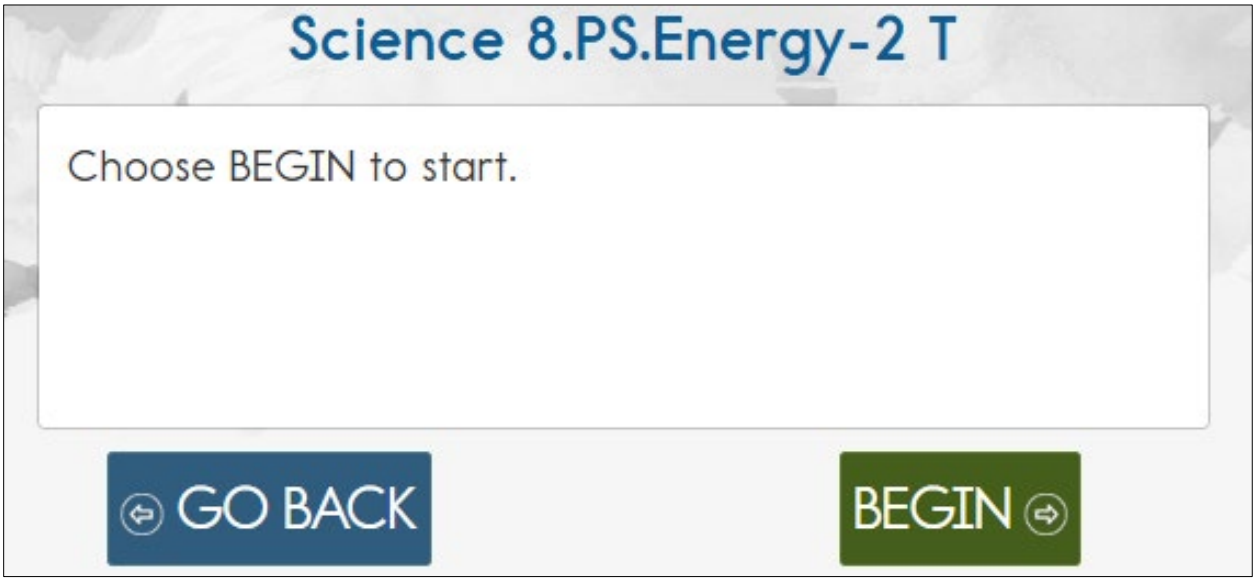
Subject: Science

Grade: Middle School

Linkage Level: Target

Essential Element: Provide evidence that kinetic energy is transferred between two objects when they collide with each other.

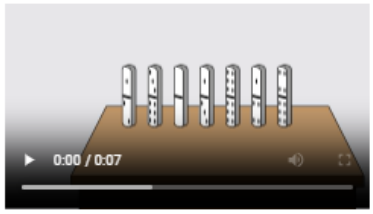
Linkage Level Assessed: Make and use observations about objects' change in motion (i.e., start moving, stop moving, speeding up, or slowing down) as evidence of kinetic energy transfer between two colliding objects.



Read about dominoes. Then answer the questions about energy and motion.

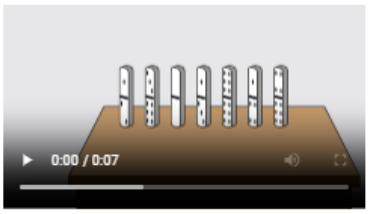
BACK EXIT DOES NOT SAVE NEXT

A teacher lines up a set of dominoes on the table. This is a video. Play the video to show what happens to the dominoes.



BACK EXIT DOES NOT SAVE NEXT

Play the video to show what happens to the dominoes.

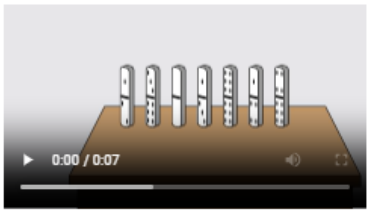


What evidence from the video shows the transfer of kinetic energy?

- Each domino is in a straight line at the beginning of the video.
- Each domino has a change in motion during the video.
- Each domino lays on the table at the end of the video.

BACK EXIT DOES NOT SAVE NEXT

Play the video to show what happens to the dominoes.

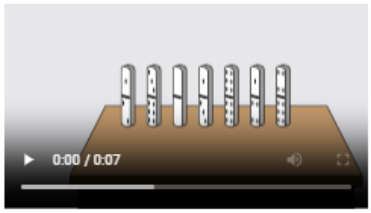


How do you know that kinetic energy transfers to the first domino?

- The domino stays still.
- The domino starts to move.
- The domino stops moving.

BACK EXIT DOES NOT SAVE NEXT

Play the video to show what happens to the dominoes.

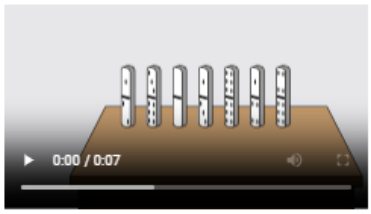


When does kinetic energy transfer to the first domino?

- when the first domino hits the second domino
- when the first domino is placed on the table
- when the finger pushes the first domino

BACK EXIT DOES NOT SAVE NEXT

Play the video to show what happens to the dominoes.

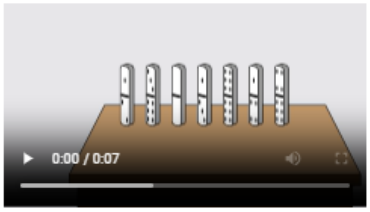


What happens when the second domino hits the third domino?

- Kinetic energy transfers to the third domino.
- Kinetic energy transfers to the second domino.
- Kinetic energy transfer stops between the dominoes.

BACK EXIT DOES NOT SAVE NEXT

Play the video to show what happens to the dominoes.



Which sentences explain the motion of all the dominoes in the video?

The dominoes transfer kinetic energy to the table as they fall. The energy then transfers from the table to the next domino in line.

Kinetic energy from the finger changes the motion of the first domino. The energy then transfers from one domino to the next in line.

The first domino has more kinetic energy from being placed on the table. The energy then transfers back and forth between each domino in line.

BACK

EXIT DOES NOT SAVE

NEXT

Review: Science 8.PS.Energy-2 T

Are you done?

Red boxes ☐ mean you are not done. Ask your teacher for help.

Blue dots ◉ mean you are done. You can choose end.

Your Progress

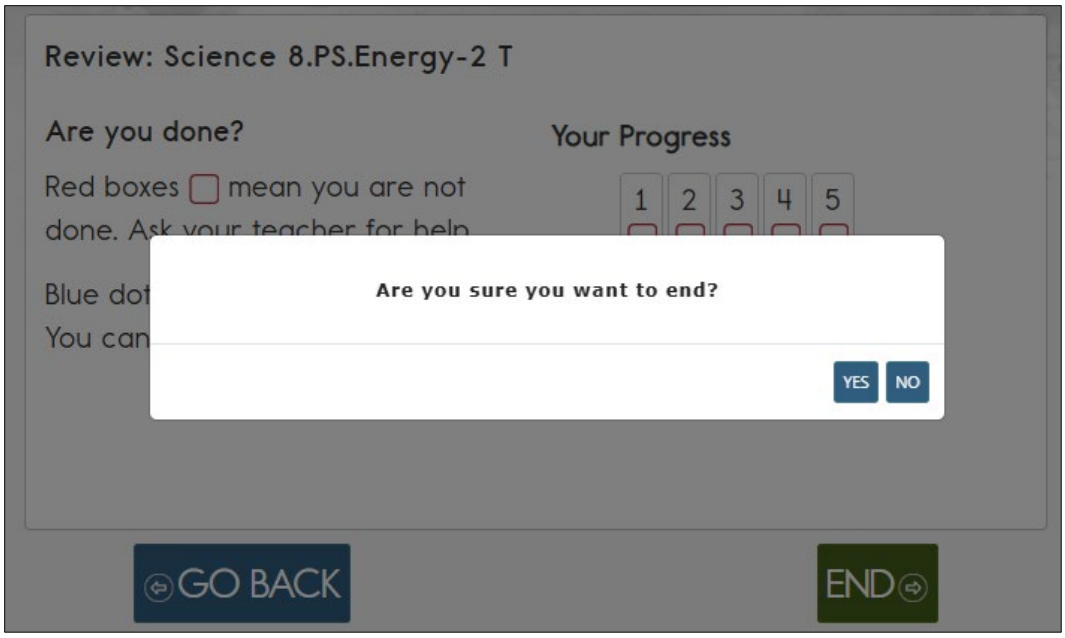
1	2	3	4	5
☐	☐	☐	☐	☐

◉ Answered

☐ Not Answered

GO BACK

END


Review: Science 8.PS.Energy-2 T
Are you done?
Red boxes mean you are not
done. Ask your teacher for help
Blue dot
You can
Your Progress
1
2
3
4
5
Are you sure you want to end?
YES
NO
GO BACK
END