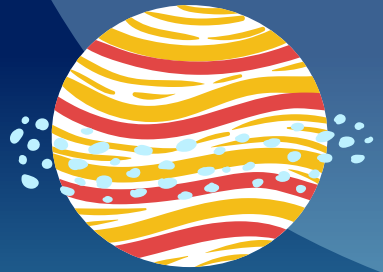
Welcome



Welcome Grade 3

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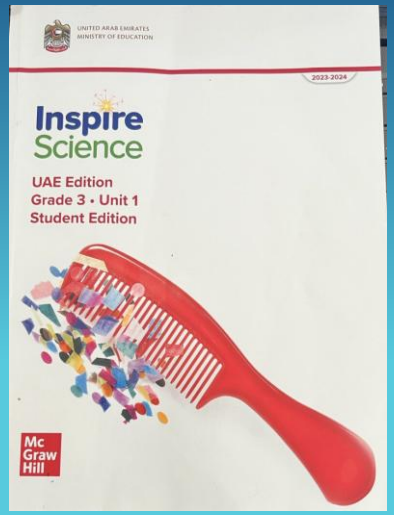
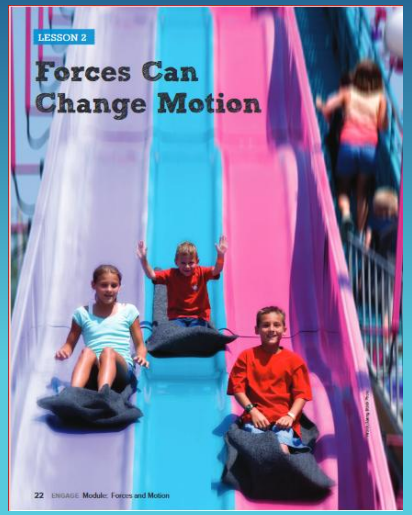
Review
Lesson2 :Force can change motion





Success Criteria

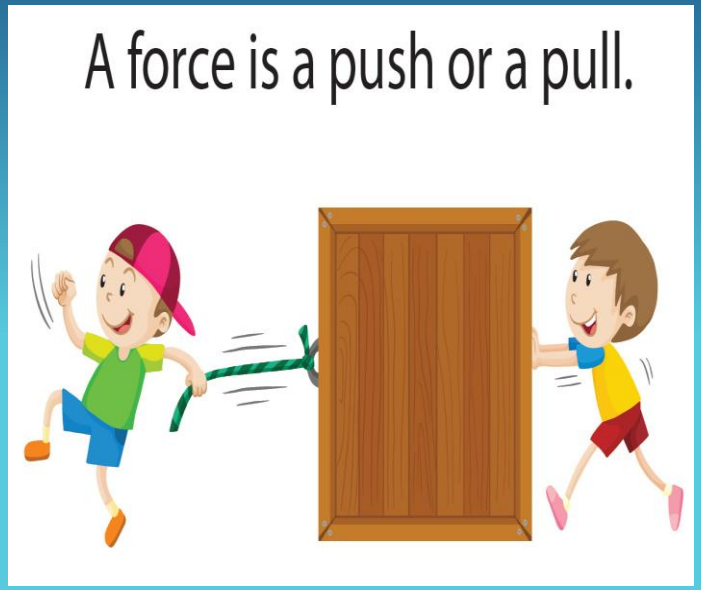
What will you LEARN today?

I can say

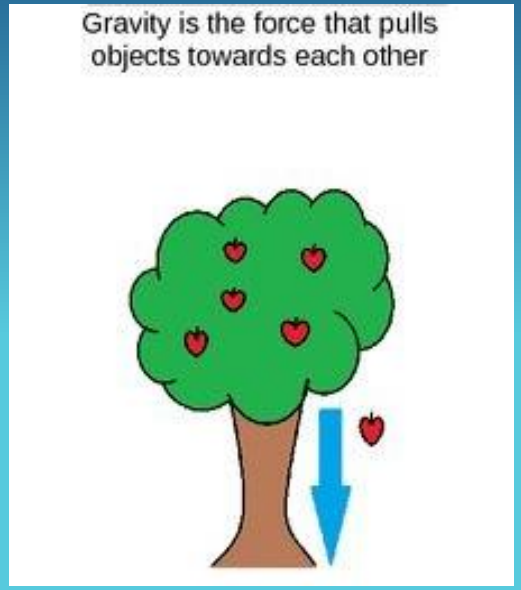
- What is Force, Friction, Gravity Balanced and Unbalanced forces
- How can force change motion ?

What we learned

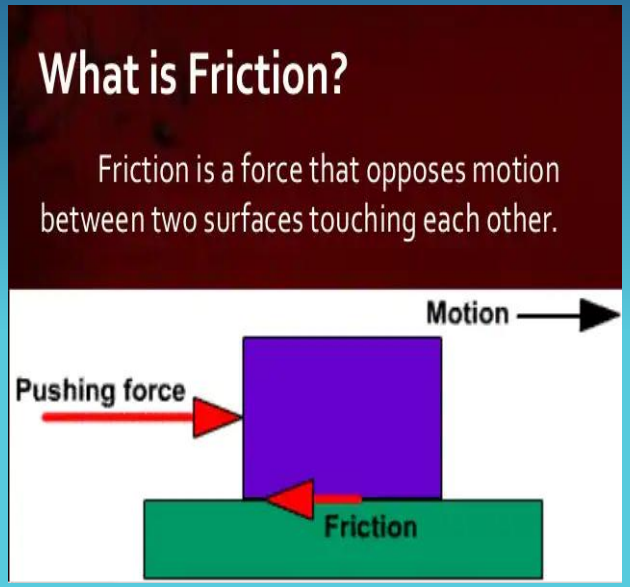
Force



Gravity



Friction



What we learned

A force can change the direction of the moving object

© forceinphysics.com

A footballer uses a force to change the direction of motion of a ball.

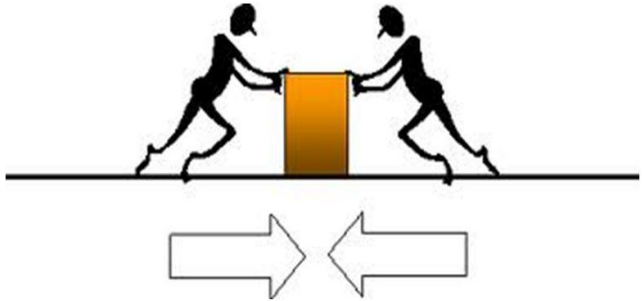
What we learned

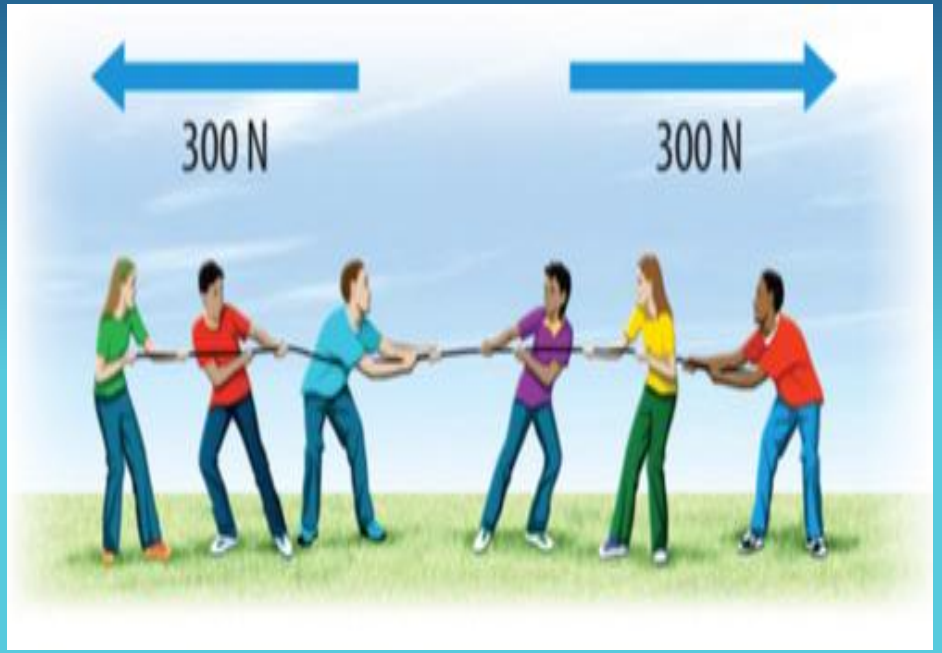
Balanced forces

Forces that cancel each other out when acting together on an object

Balanced Forces

- Equal forces acting on one object in opposite directions.
- Do not change the object's motion.



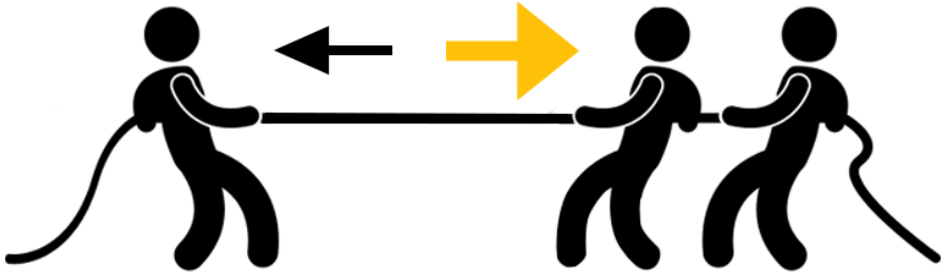


What we learned

Unbalanced forces

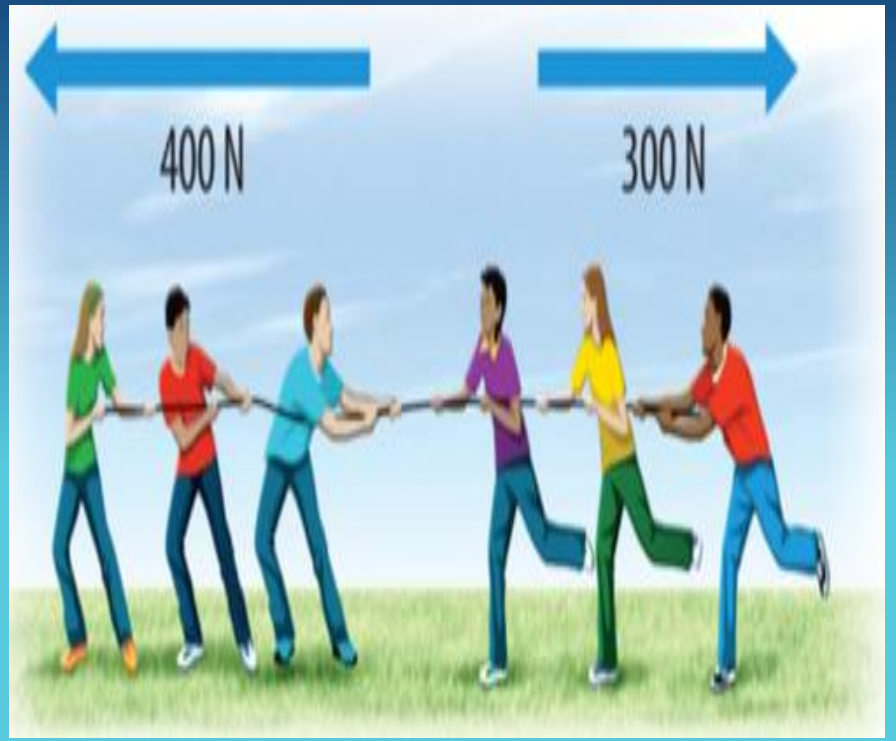
Forces that are not equal to each other

forces acting on an object to cause a change in motion



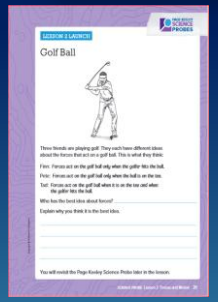
unbalanced force

Game Smartz flashcard



Starter Activity

PAGE KEELEY SCIENCE PROBES Golf Ball



Share your answer in the whiteboard

Who has the best idea about forces?

A	Finn: *Forces act on the golf ball only when the golfer hits the ball.*
B	Pete: *Forces act on the golf ball only when the ball is on the tee.*
C	Tad: *Forces act on the golf ball when it is on the tee and when the golfer hits the ball.*

Write answer in the Textbook

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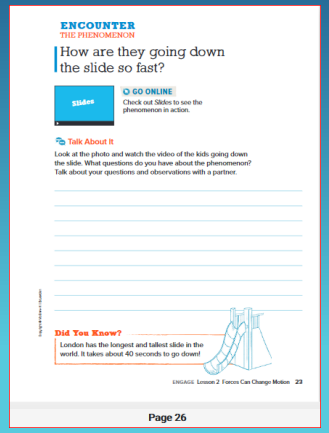
ENCOUNTER
THE PHENOMENON

How are they going down the slide so fast?

Slides

GO ONLINE
Check out Slides to see the phenomenon in action.

Talk About It

Look at the photo and watch the video of the kids going down the slide. What questions do you have about the phenomenon? Talk about your questions and observations with a partner.

Did You Know?
London has the longest and tallest slide in the world. It takes about 40 seconds to go down!

ENGAGE Lesson 2 Forces Can Change Motion 23

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Talk About It

Look at the photo and watch the video of the kids going down the slide. What questions do you have about the phenomenon? Talk about your questions and observations with a partner.

How do they go down so fast ?

Write answer in the Textbook

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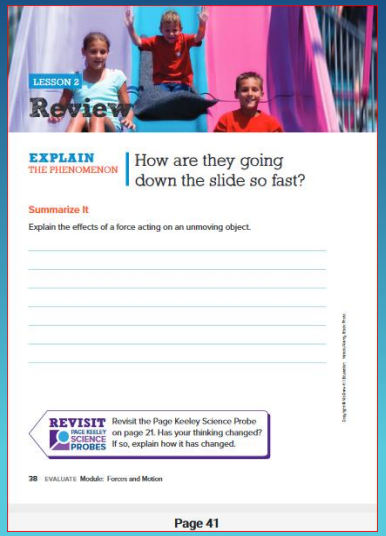

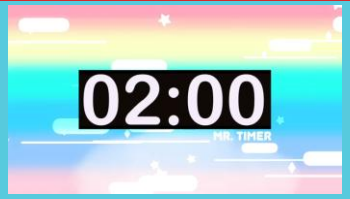

Summarize It

Explain the effects of a force acting on an unmoving object.

The unmoving object will move in the direction of force.

Write answer in the Textbook

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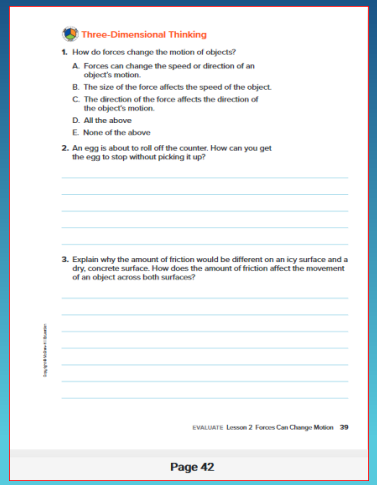
Three-Dimensional Thinking

1. How do forces change the motion of objects?
   A. Forces can change the speed or direction of an object's motion.
   B. The size of the force affects the speed of the object.
   C. The direction of the force affects the direction of the object's motion.
   D. All the above
   E. None of the above
2. An egg is about to roll off the counter. How can you get the egg to stop without picking it up?
3. Explain why the amount of friction would be different on an icy surface and a dry, concrete surface. How does the amount of friction affect the movement of an object across both surfaces?

EVALUATE Lesson 2 Forces Can Change Motion 39

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Share your answer in the whiteboard

Three-Dimensional Thinking

1. How do forces change the motion of objects?
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Write answer in the Textbook

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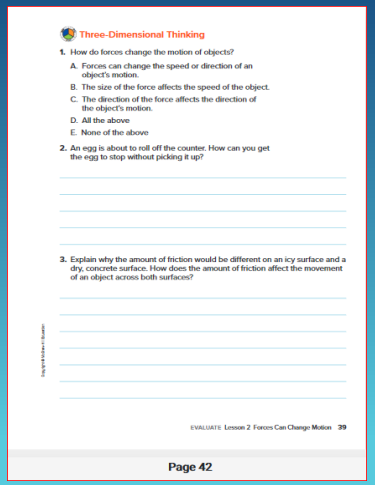
Force



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EVALUATE Lesson 2 Forces Can Change Motion 39

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2. An egg is about to roll off the counter. How can you get the egg to stop without picking it up?

Apply a force in the opposite direction of the egg's motion.

Write answer in the Textbook

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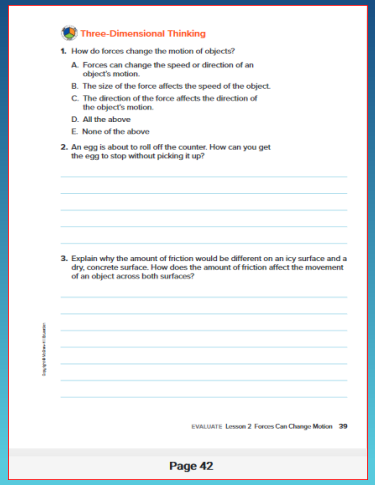

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3. Explain why the amount of friction would be different on an icy surface and a dry, concrete surface. How does the amount of friction affect the movement of an object across both surfaces?

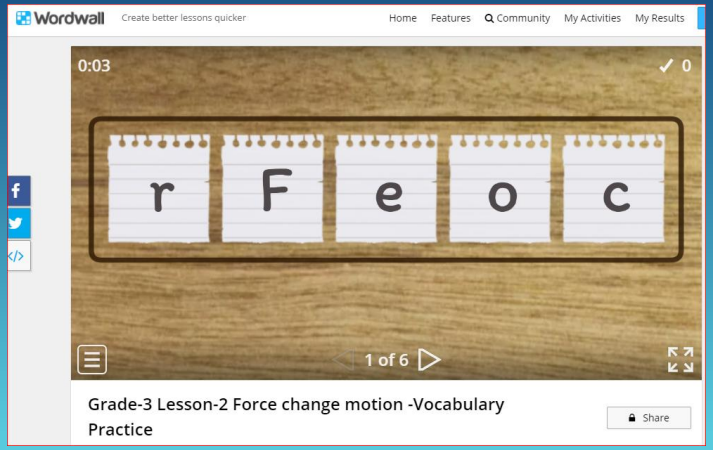
A smooth surface has less friction than a rough surface.

An object can move faster and farther if there is less friction.

Exit Ticket
Vocabulary practice

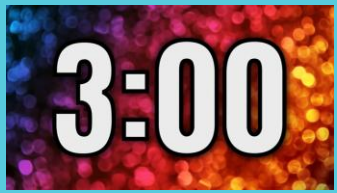
Write answer in the whiteboard

https://wordwall.net/play/21874/099/316



Help box

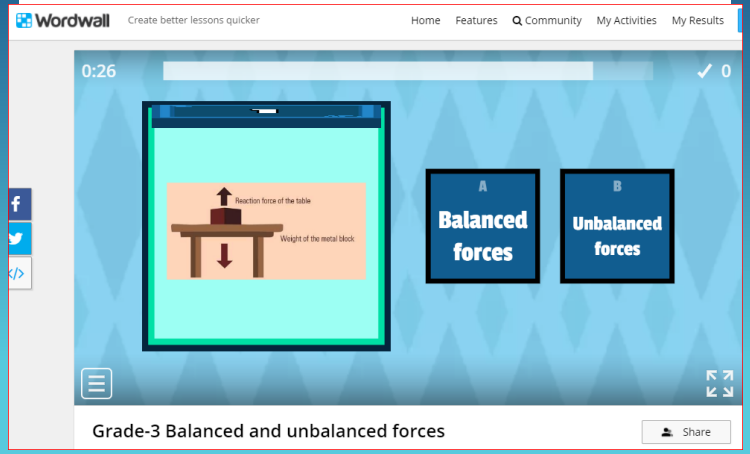
Force	Gravity	Friction
Motion	Balanced	Unbalanced



AFL Exit Ticket

Write answer in the whiteboard

https://wordwall.net/resource/21873346



3:00