

كل ما يحتاجه الطالب في جميع الصفوف من أوراق عمل واختبارات ومذكرات، يجده هنا في الروابط التالية لأفضل مواقع تعليمي إماراتي 100 %

<u>تطبيق المناهج الإماراتية</u>	<u>الاجتماعيات</u>	<u>الرياضيات</u>
<u>الصفحة الرسمية على التلغرام</u>	<u>الاسلامية</u>	<u>العلوم</u>
<u>الصفحة الرسمية على الفيسبوك</u>	<u>الانجليزية</u>	
<u>التربية الاخلاقية لجميع الصفوف</u>	<u>اللغة العربية</u>	
<u>التربية الرياضية</u>		
مجموعات التلغرام.	مجموعات الفيسبوك	قنوات تلغرام
<u>الصف الأول</u>	<u>الصف الأول</u>	<u>الصف الأول</u>
<u>الصف الثاني</u>	<u>الصف الثاني</u>	<u>الصف الثاني</u>
<u>الصف الثالث</u>	<u>الصف الثالث</u>	<u>الصف الثالث</u>
<u>الصف الرابع</u>	<u>الصف الرابع</u>	<u>الصف الرابع</u>
<u>الصف الخامس</u>	<u>الصف الخامس</u>	<u>الصف الخامس</u>
<u>الصف السادس</u>	<u>الصف السادس</u>	<u>الصف السادس</u>
<u>الصف السابع</u>	<u>الصف السابع</u>	<u>الصف السابع</u>
<u>الصف الثامن</u>	<u>الصف الثامن</u>	<u>الصف الثامن</u>
<u>الصف التاسع عام</u>	<u>الصف التاسع عام</u>	<u>الصف التاسع عام</u>
<u>الصف التاسع متقدم</u>	<u>الصف التاسع متقدم</u>	<u>الصف التاسع متقدم</u>
<u>الصف العاشر عام</u>	<u>الصف العاشر عام</u>	<u>الصف العاشر عام</u>
<u>الصف العاشر متقدم</u>	<u>الصف العاشر متقدم</u>	<u>الصف العاشر متقدم</u>
<u>الحادي عشر عام</u>	<u>الحادي عشر عام</u>	<u>الحادي عشر عام</u>
<u>الحادي عشر متقدم</u>	<u>الحادي عشر متقدم</u>	<u>الحادي عشر متقدم</u>
<u>ثاني عشر عام</u>	<u>الثاني عشر عام</u>	<u>الثاني عشر عام</u>
<u>ثاني عشر متقدم</u>	<u>ثاني عشر متقدم</u>	<u>ثاني عشر متقدم</u>

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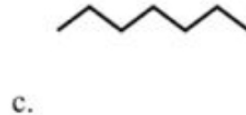
Motion & Forces



1. Where is the ball in the picture?

- a. On the table b. Beside the table c. Under the table

2. Which shows moving in a round and round motion?



3. Circle which has the fastest speed?



4. Which of these is a push force?



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5. What force does the picture show?



- a. Gravity b. Friction c. Magnetism

6. What force does the picture show?



- a. Friction b. Gravity c. Magnetism

7. What force helps a bike to slow down?



- a. Friction b. Magnetism c. Gravity

8. What type of simple machine is this?



- a. Pulley b. Lever c. Wheel and axel

Changes in Matter

1. When a solid changes to liquid it is called?



- a. Evaporating b. melting c. condensation

2. What physical change does the picture show?



- a. evaporation b. freezing c. melting

3. Water freezes at what temperature?

- a. 10°C b. 0°C c. 100°C

4. Water boils and evaporates at what temperature?

- a. 100°C b. 20°C c. 0°C

5. When a water is a solid it is called?



- a. Liquid b. ice c. water vapor

6. What type of a change is happening to the paper?



- a. Physical change b. chemical change

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7. When we mix fruit together it is called a

?



- a. Mixture b. Solution

8. When water and salt is mixed it makes a



- a. Solution b. Mixture

9. Select which is a chemical change



10. What type of a change is happening to the bananas?



- a. Physical Change b. Chemical change



Chapter 14

OUTCOMES: -Identify a force as a push or a pull, and relate force to motion.
-Describe and relate position and motion
- Define speed using distance and time
-Define common forces, such as magnetism, friction, and gravity

Vocabulary

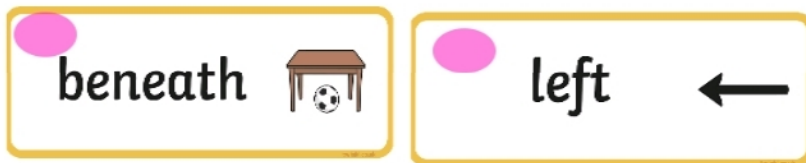
	position the location of an object		simple machine a machine with few or no moving parts
	motion a change in position		lever a straight bar that moves on a fixed point
	force a push or pull; a force can make an object move		screw an inclined plane wrapped into a spiral

Lesson 1 : Position and motion

POSITION: the location of an object.

-you can describe something's position by comparing it to the position of other things.

-These words describe the position of an object:

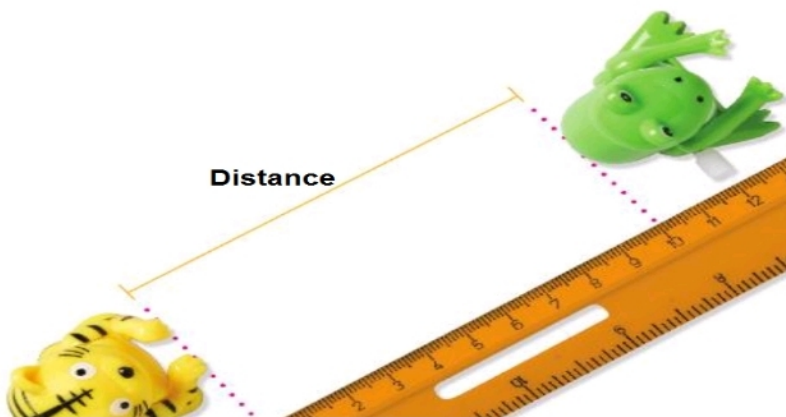


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DISTANCE: is the amount of space between two objects or places

-distance is measured in centimeters, meters, or kilometers.

-you can use a ruler or meter stick to measure distance.



Motion: is a change in position.

-types of motion :

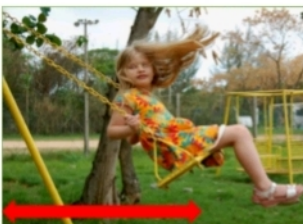


Straight line

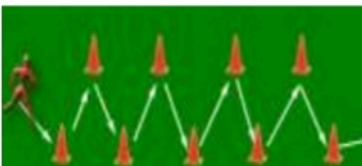
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Round and round



Back and forth



Zigzag

SPEED: describes how quickly an object moves.

-an object's speed tells how far it will move in a certain amount of time.

-if a car traveled 50 kilometers per hour, its speed was 50 km/h

Lesson 2: Forces

Force: is a push or a pull.

-force can change the motion of objects by:

1-make objects start or stop moving.

2-speed up or slow down moving.

3-change direction.

-it takes more force to move heavy things than light objects.

Types of forces

1-contact force: it happens between objects that touch.




▲ When the bat hits the ball, the ball changes direction.

the bowler must touch the ball to throw it.

Friction is an example of contact force.

Friction:

Is a force that occurs when one object rubs against another, causing them to slow down.

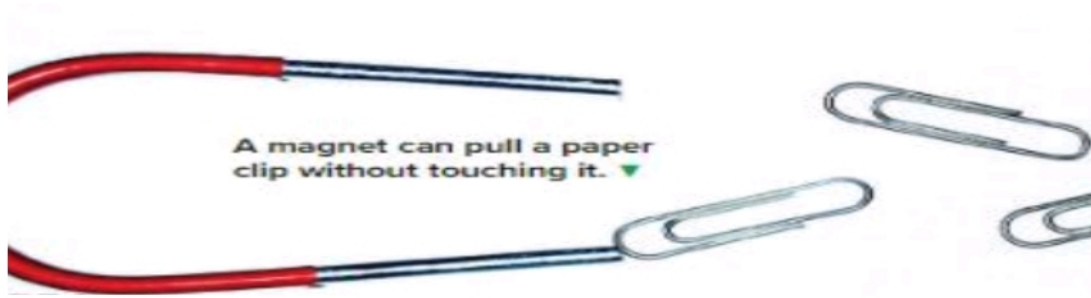
More friction	Less friction
Rough surfaces: such as sandpaper	Smooth surfaces: such as ice
Sticky things Breaks on a bike use rubber pads against the wheel to increase friction	Oil reduces friction on moving parts of machines
 <p>▲ Friction between the brake pad and the bike rim stops the bike.</p>	

2-Non contact force: it is the kind of force that act on an object without touching the object like magnetism and gravity

MAGNETISM:

Is a force that causes magnets to attract or repel each other without touching.

Magnets can attract or repel objects through solids ,liquids, or gases.



Attract	repel
Iron	Wood
Opposite pole of magnets(N-S)	Glass
	Plastic
	rubber

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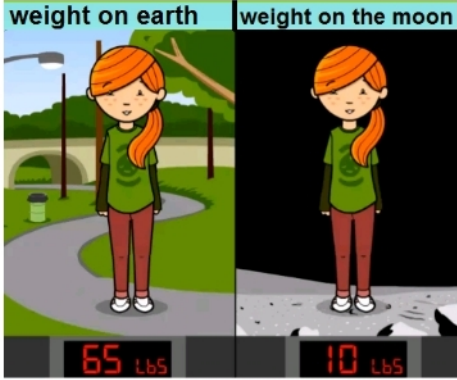
Gravity:

is a pulling force between two objects, such as you and earth.

-gravity pulls through solids, liquids, and gases.

-weight: is a measure of the pull of gravity on an object.

-the more mass an object has, the more gravity pulls on it.

weight	mass
Is a measure of the pull of gravity on an object	Is the amount of mater an object has.
Weight can be different from a place to another	Mass is the same everywhere.
	

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Name: _____ Class: _____ Date: _____

Chapter 14: lesson 1+2

Position and motion + forces

- **Outcomes:** Describe and relate position and motion

Define speed using distance and time

Identify a force

Define common forces, such as a push or a pull, magnetism, gravity and friction

QUISTION 1 :Circle the right answer for each question

1-What is the position of the ball?



- a. The ball is on the table.
- b. The ball is under the table.

2-What happens when you hammer a nail?



- a. You are pulling the nail into the wood.
- b. You are pushing the nail into the wood.

3-Which item do you need to use the most force to pick up?



4-Which is the force that slow down moving things?

a. Position

b. Friction

5-Which thing that is usually pushed?



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6-Which object will a magnet attract?



7-Which is a FORCE that PULLS objects together?

a. Gravity

b. Weight

8-Using a smoother surface on a playground slide decreases

a. Friction

b. Weight

9-Which sentence is FALSE?

a. All things have mass

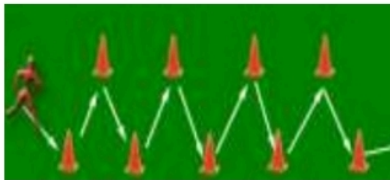
b. Mass is a measure of gravity's pull on an object.

10-The force that slows down the bick when you squeeze the brakes is:

a. Position

b. Friction

QUESTION 2 :Match the right motion to its picture



Round and round

zigzag

Straight line

Back and forth