

**Q1: Put the term in correct blank: ضع المفهوم في مكانه الفارغ المناسب**

Distance -- Velocity -- Motion -- Gravity -- Newtons (N) -- Speed -- Acceleration --  
Friction -- Position -- Force.

1. An object is in ..... if its location is constantly changing.
2. Is the location of an object .....
3. How far apart two points or places are .....
4. The distance an object moves in an amount of time it .....
5. Describes the object's speed and direction of motion .....
6. A ..... is a push or a pull.
7. A force that occurs when one object rubs against another .....
8. A pulling force between two objects its .....
9. It's the unit of Force and gravity .....
10. Is any change in the speed or direction of an object .....

**Q2: Choose correct answer to each statement:**

1-The rough surfaces have:

**A- less friction.**

**B- a lot of friction**

2- The smooth surfaces have:

**A- a lot of friction**

**B- less friction.**

3-The main difference between Speed and Velocity is that Velocity have:

**A-Time**

**B- Distance**

**C- Direction**

**D- Move**

4-The car move 100 km\ h West this is the:

**A-Speed**

**B- Velocity**

**C-Motion**

**D- Newton**

5- If you apply more force the Acceleration will be:

**A- More**

**B- Less**

6- If you apply same force on object more weight the accelerates will be:

**A- More**

**B- Slowly.**

1. A change in position or location of an object is:

**a-Acceleration**

**b-Motion**

**c-Direction**

2. Acceleration is a change in speed or:

**a-Time**

**b- Lift**

**c- Direction**

3. How far apart two points or places are:

**a- Distance**

**b- Speed**

**c- Velocity**

5- The speed of a car in race track is:

**a- 120 km\ h**

**b- 120 N**

**c- 120 km.**

6- The distance between Abu Dhabi and Dubai is about :

**a-150 km**

**b-150 m/s**

**c-150 N**

7- If you know the *distance* and *time* of car moving you can find **Speed** by:

**a- Distance ÷ Time**

**b- Distance + Time**

**c- Distance × Time**

#### G4- Term3- Chapter 8- Lesson 2 : Forces and Transportation

Done By Arwa Al Mussabi

**Q1: Put the term in correct blank:** ضع المفهوم في مكانه الفارغ المناسب

**DRAG -- BUOYANCY -- LIFT -- Thrust**

1. A force that moves an object forward .....
2. A force that work against motion of an object- slows it down .....
3. The force that holds objects in air .....
4. The upward force on an object .....

**Q2: Choose the correct answer to each statement:**

1-Force that moves an object forward:

**a-Thrust                      b-Lift                      c-Drag**

2- Force holds an object in the air keeps it from falling:

**a-Thrust                      b-Lift                      c-Gravity**

3- ..... force that pushing boats and ships up in water:

**a- Buoyancy                      b- Drag                      c-Lift**

4- An essential force for stopping and starting:

**a-Thrust                      b-Friction                      c-Lift**

5- When the boat sink, the force of gravity is:

**a-More than buoyancy      b-Less than buoyancy      c-Equal to buoyancy**

6- Rockets fly powerfully into space:

**a-Buoyance                      b-Thrust                      c-Lift**

7- Force works against the motion of an object moving through a liquid or a gas:

**a- Drag                      b- Gravity                      c-Thrust**

8- An essential force for stopping and starting:

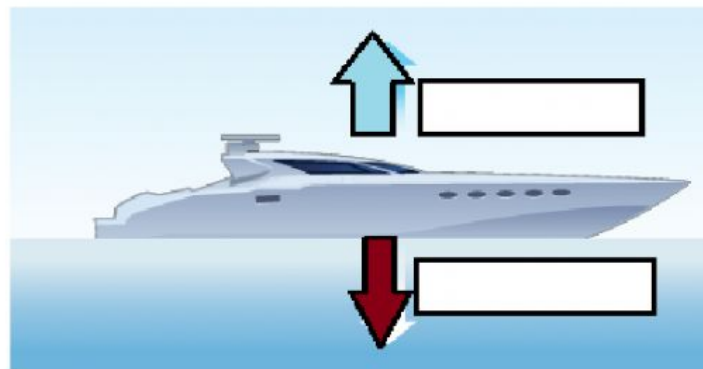
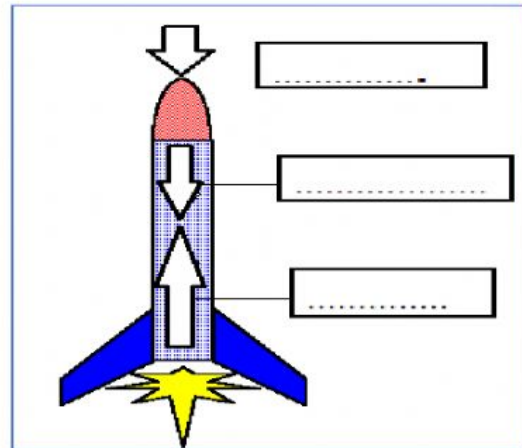
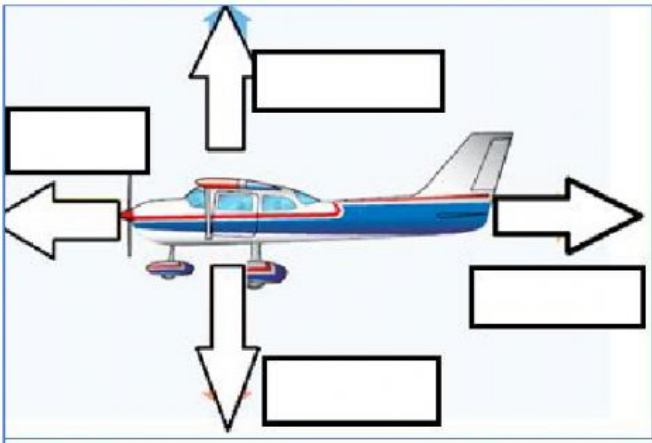
**b- Thrust                      b- Friction                      c- Lift**

**Q3: Choose T or F to each statement :**

- 1- Two forces against rocket's thrust are Gravity & Lift. (T or F )
- 2-Airplane need 2 kinds of forces to fly they are: thrust and lift (T or F )
- 3- Two forces against Airplane moving are Gravity and Drag (T or F )

**Q4: Write all types of Forces that effect on airplane, rocket and boat:**

The Forces are ( Gravity - Thrust - Drag - Buoyancy – Lift )





**Q1: Put the term in correct blank:** ضع المفهوم في مكانه الفارغ المناسب

**Stratosphere- Wind - Weather - Precipitation - Air pressure - Temperature -  
Climate - Troposphere – Atmosphere – Humidity.**

1. Is the blanket of gases that surrounds Earth.....
2. Layer closest to Earth's surface it have Earth's life and elements of weather.....
3. The layer above the troposphere.....
4. Describes short term air condition like wind and temperature.....
5. Is a pattern of seasonal weather in an area.....
6. Is a measure of how much moisture is in the air .....
7. Any form of water that falls from clouds.....
8. Is air that moves from place to place .....
9. Is the force of air pushing on an area.....
10. Is how hot or cold something .....

**Q2: Order layers of Atmosphere from Earth's surfaces?**

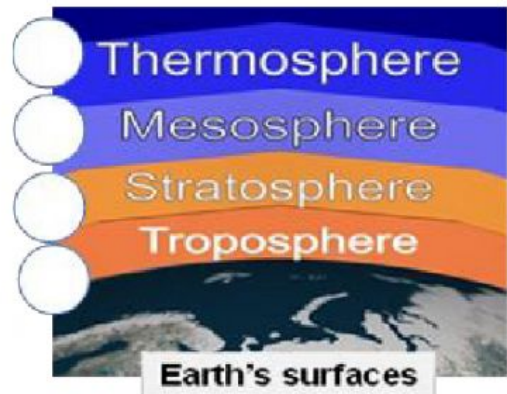
رتب طبقات الغلاف الجوي بحيث رقم ١ يكون الأقرب لسطح الأرض

**Q3: Put T or F near each statement:**

ضع صح او خطأ لكل عبارة

1-Desert have very high humidity ( ).

2-Rain forest have lower humidity ( ).



**Q4: Connect the weather element to its tool and the name of it:**

وصل بين عنصر الطقس والاداة المناسبة له واسم هذه الأداة مثال ١ محلول:

**Weather Elements:**

Wind Speed

Wind Direction

Air Pressure

Humidity

Air Temperature

Precipitation

**Weather Tools  
picture:**



**Weather Tools  
Name:**

Barometer

Anemometer

Wind vane

Hygrometer

Thermometer

Rain gauge

**Q1: Put the term in correct blank:** ضع المفهوم في مكانه الفارغ المناسب

**Soil water - Reservoir - Ice caps - Seawater - Groundwater - Freshwater -  
Watershed - Runoff -- Wells – Water treatment plant - Irrigation**

1. Water soaks into soil, Plants used soil water .....
2. Water that fills the cracks and spaces of rocks under the ground .....
3. Are deep holes drilled or dug below the ground .....
4. Water flows downhill into a stream, lake or river .....
5. A storage area for keeping fresh water .....
6. Water flows over the land without evaporating or soaking into the ground.....
7. Water have a lot deal of salt .....
8. Its way to bring water into soil or crops through pipes or ditches .....
9. Water without much salt .....
10. Are thick layers of ice on land .....
11. Is a place where water become clean and pure .....

**Q2: Test Prep: Choose correct answer for each statement:**

1-Most of Earth's freshwater is:

A- Lakes, rivers and streams

C- in the atmosphere

B- below the ground

D- in glaciers and ice caps.

2- People can have freshwater from:

A- Seawater

B- Wells, reservoir, runoff

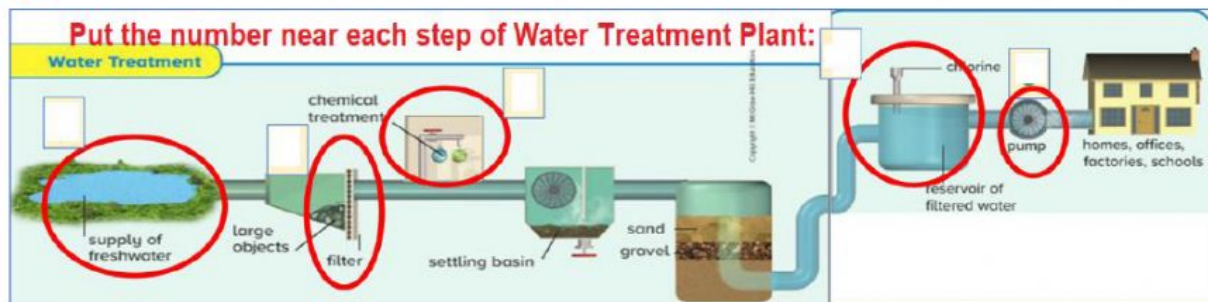
3- Salt water forms around:

A-  $\frac{3}{4}$  of the Earth's surface

B-  $\frac{1}{2}$  of the Earth's surface.

C-  $\frac{1}{4}$  of the Earth's surface.

**Q3:**





**Q1: Put the term in correct blank:** ضع المفهوم في مكانه الفارغ المناسب

**Thunder - Air Masses -- Weather Map - Forecast -- Hurricane --  
Front -- Tornado**

1. Large regions of air have same properties throughout ..... كتل هوائية
2. The boundary between two air masses that have different temperature ..... الجبهة
3. Is to predict weather conditions ..... التنبؤات
4. Show weather conditions at a certain time and place..... خرائط الطقس
5. Booming sound made with lighting..... الرعد
6. Vary tall, gray funnel shape..... اعصار قمعي
- 7- Form over warm water in **ocean**. ..... اعصار محيطي

**Q2: Connect between the Front type and its meaning:**

1

When warm air mass push into cold air mass. **Bring light rain.**

Stationary Front

2

When cold air mass push under warm air mass. **Bring stormy weather.**

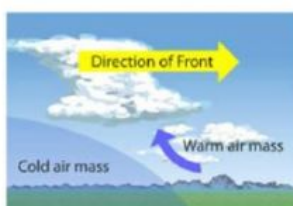
Warm Front

3

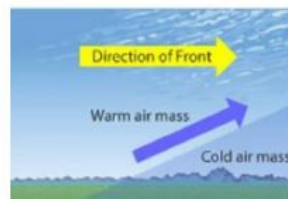
Boundary between air masses that are not moving. **Bring a lot of rain many days.**

Cold Front

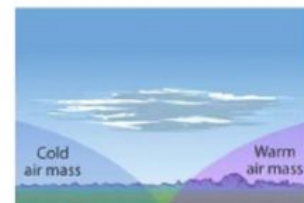
**Q3: Connect between the picture of Front and its name:**



Warm Front



Stationary Front



Cold Front



## Summary Chapter 9

### Lesson 1 Earth and Sun- Q1: Complete with correct answer all questions:

#### Revolution - Rotation – Shadow – 24 – year - Orbit

1-The act of spinning..... Earth takes ..... hours to rotate around it self's.

2- ..... its forms when light is blocked.

3- ..... When one objects travels around another. Earth takes one ..... to make one revolution around Sun.

4-The path a revolving object takes .....

### Q2: connect the statement to its correct answer:

- a- Causes day and night and its tack 24 hours.
- b- Causes 4 seasons and its takes one year.
- c- In summer, the Sun rises much.
- d- Shortest shadow happened at.
- e- In winter, the Sun rises much.


Higher  
Lower  
Revolution  
Rotation  
Near Noon

### Q3:Complete the table from picture أكمل الجدول من الصورة :

	Rotation دوران محوري	Revolution دوران حول الشمس
Meaning التعريف		
Duration المدة		
Time الزمن		
Causes يُسبب		

#### ROTATION


Turn or Spin




shorter time

Time it takes:  
**1 day = 24 hours**


Rotation Causes:

Day  


Night  


#### REVOLUTION

Go Around The Sun




longer time


Time it takes:  
**1 year = 365 days**

Revolution causes:

#### The 4 Seasons

Spring  


Summer  


Fall  


Winter  
