

Grade 6 science final revision sheet - second term

**Materials for the exam :**

- 1- Science book (pages 642-685 + pages 716 - 723).
- 2- Home and support ( pages 115- 123 + pages 129-130 ).
- 3- The final revision sheet .



**Some forms of energy**

What is the meaning of the following terms? :

1- Energy :

.....  
.....

2- Potential energy :

.....  
.....

3- Kinetic energy :

.....  
.....

4- Law of the conservation energy :

.....  
.....

5- Complete the missing word :

The amount of the ..... An object has depends on the  
position and how massive it is .

**Answer the following questions :**

1- What are some forms of energy ?

 .....

 .....



2- What kind of energy changes take place as the rocket moves from the ground to its highest point ?

.....  
.....

3- How would you describe the energy in unlighted match and lighted match ?

.....  
.....

4- How does the energy changed in the flash light ?

.....  
.....

5- What are 3 forms of energy that can be changed in to electrical energy ?

1- .....

2- .....

3- .....

6- What is the most important idea about the conservation law ?

.....  
.....



**Refraction and diffraction work sheet**

1- Answer the following questions :

a- What is the meaning of the refraction ?

.....

b- What is the meaning of the diffraction ?

.....

c- What causes the refraction ?

.....

.....

d- What kinds of substance cause light to bent ?

.....

.....

e- What causes the diffraction in the atmosphere ?

.....

f- Name some examples for refraction and diffraction ?

.....

.....

2- Draw the track of the refracted light rays :





1- Choose the correct answer :

1- How many colors are the white light made of :

- a-7                                      b-6                                      c-5                                      d- 4

2- Which of these materials can reflect the light :

- a-mirror                                      b- soil                                      c- stone                                      d- paper

3- What is the name of the tools which separate the white light :

- a-stone                                      b- mirror                                      c- prism                                      d- fiber optics

2- Answer the following questions :

a- What is the meaning of reflection ?

.....  
.....

b- How does light normally travel ?

.....

c- How can light change its direction ?

.....

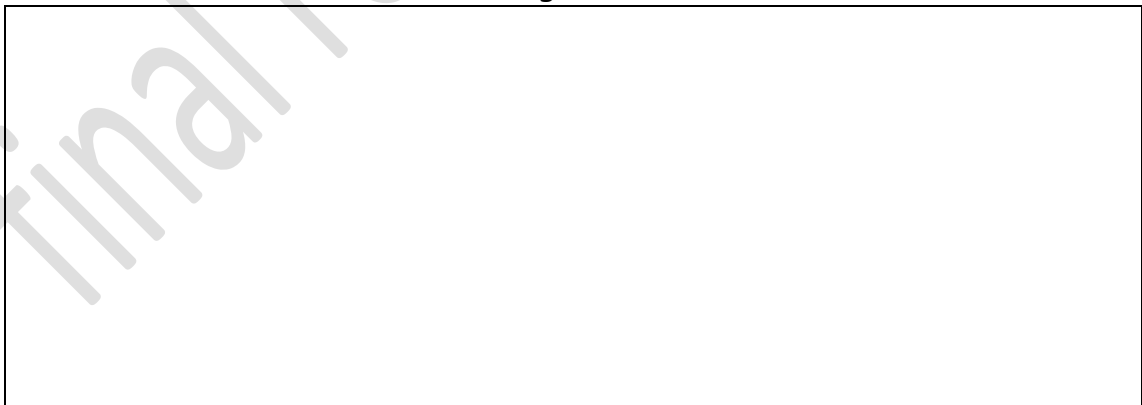
d- How do the sun and the moon differ in the way people see them ?

.....  
.....

e- How does the amount of the reflected light affected by the kind of the objects surfaces?

.....  
.....

3- Draw the track of the reflected light :





Q1- Choose the correct answer :

- 1- What is the potential energy :
  - a- the energy of motion
  - b- stored energy
  - c- nuclear energy
- 2- What is the kinetic energy?
  - a- Heat energy
  - b- Electrical energy
  - c- Energy of motion
- 3- How many colors are the white light made of :
 

a-7                                      b-6                                      c-5                                      d- 4
- 4- Which of these materials can reflect the light :
 

a-mirror                                      b- soil                                      c- stone                                      d- paper
- 5- What is the name of the tools which separate the white light :
 

a-stone                                      b- mirror                                      c- prism                                      d- fiber optics

Q2- Fill up the blanks:

Potential energy   - transparent   - amplitude   - reflection -  
translucent   - kinetic energy   - opaque   - refraction

- 1- We say the bouncing of light off a surface .....
- 2- The ..... its kind of energy related to the position or condition of the object .
- 3- The ..... Substances allow some light to pass through .
- 4- ..... Is a bending of light as it passes from one material to another .
- 5- The ..... Substances allow most light to pass through .



Q3-Complete the following table :

Sort the different objects to ( transparent - translucent - opaque )

Book - door - wax paper - tissue - some kind of plastic - glasses - wall - window		
Transparent	Translucent	Opaque

Q4 : Answer the following questions :

1- What is the difference between the velocity and the speed of an objects?

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2- What are the two main property of the sound ?

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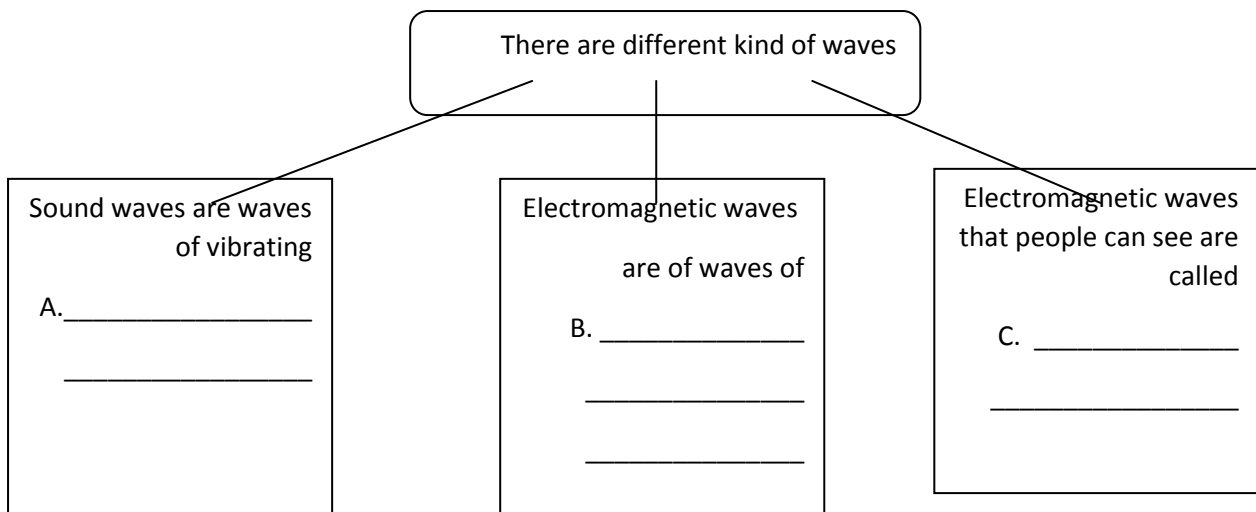
3- What is the energy ?

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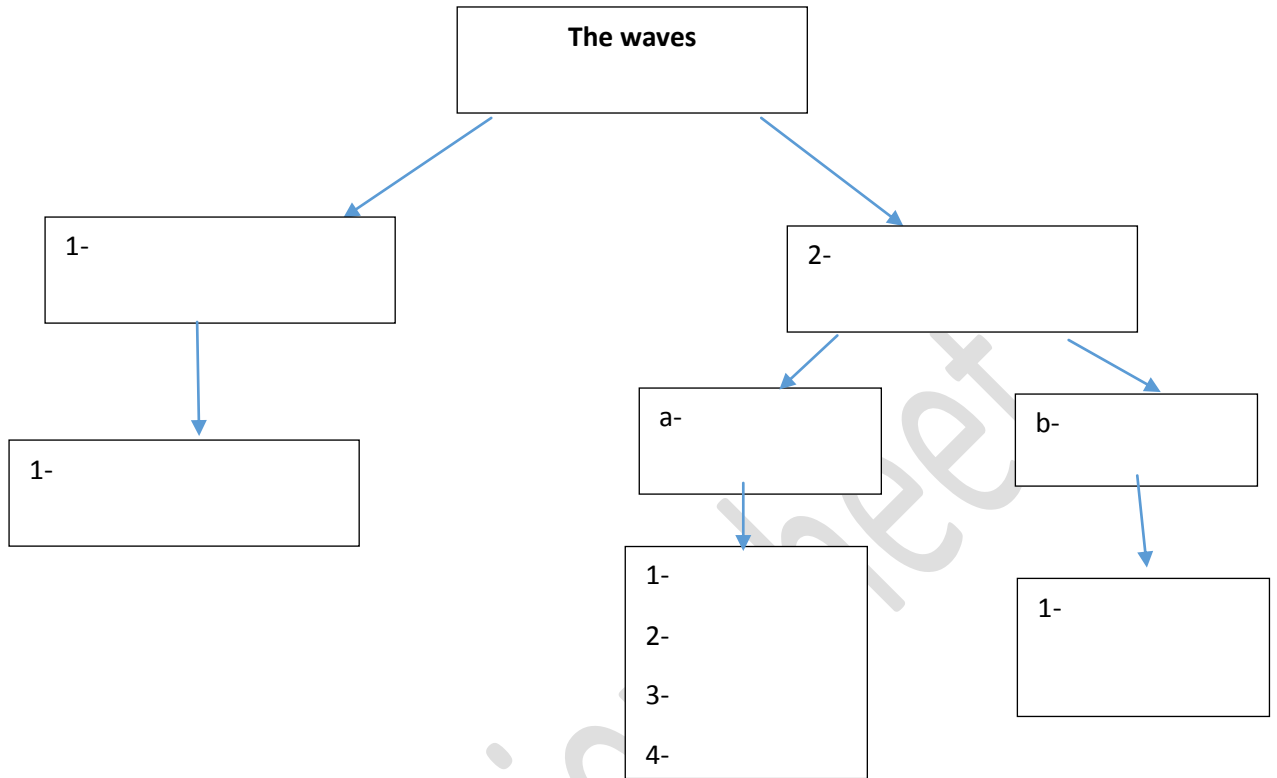
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Complete the graphic organizer

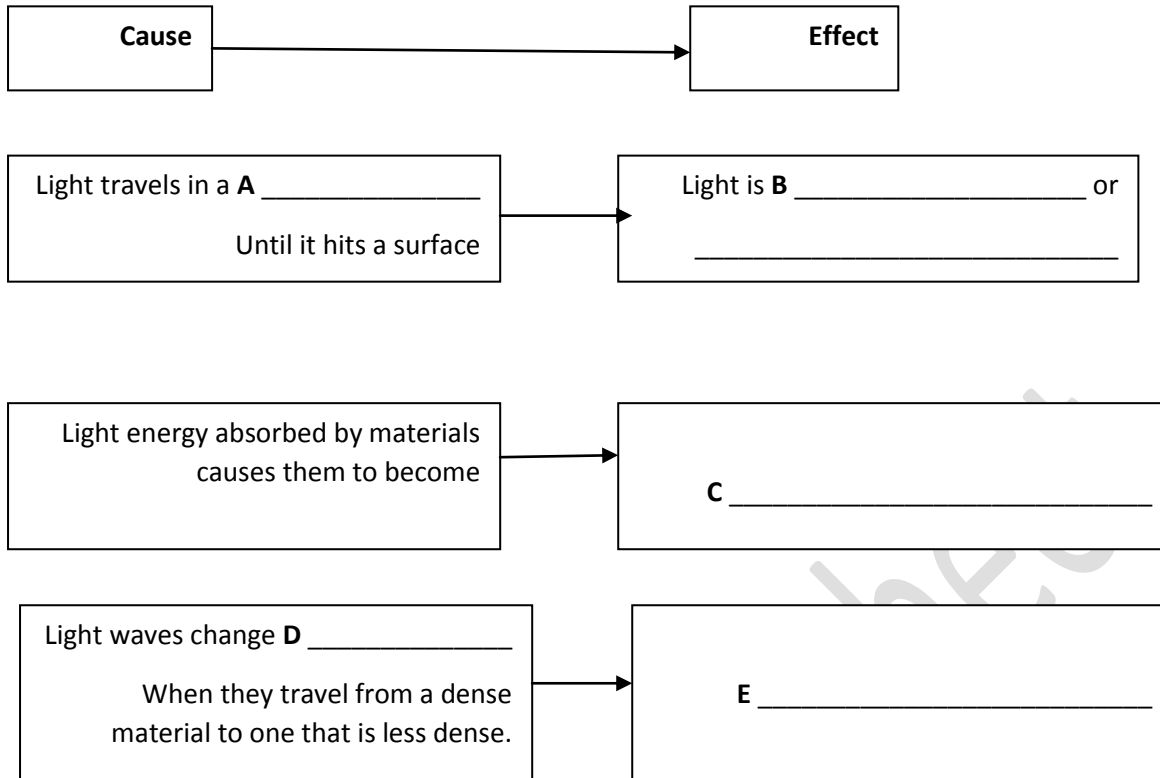




: Complete the graph organizer about the waves :







: Fill in the blanks with the given words.

**Velocity, acceleration  
force, inertia, speed**

- The cup didn't move by itself because of \_\_\_\_\_
- \_\_\_\_\_ describe an objects speed and direction of travel.
- \_\_\_\_\_ increases with greater force on an object.
- Ahmed use great \_\_\_\_\_ to move the desk.
- \_\_\_\_\_ is the distance that something moves in certain period of time.



Q-5: Question and answer.

1. How does a change in thermal energy cause ice to melt.

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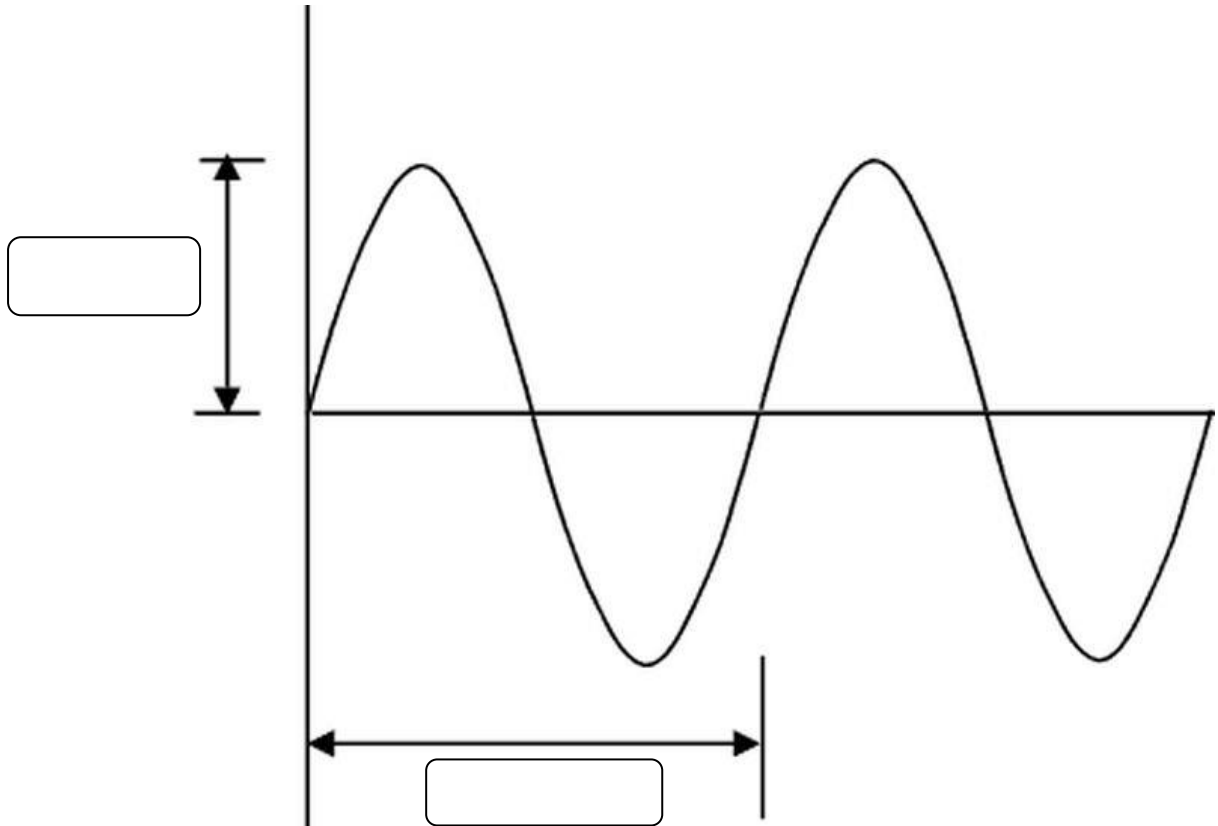
2. Write the law of motion or inertia

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1- Identify the different parts in the wave structure in the following picture:





Fill up the blanks :

- |                     |                   |              |               |
|---------------------|-------------------|--------------|---------------|
| 6- Potential energy | 2- transparent    | 3- amplitude | 4- reflection |
| 5-translucent       | 6- kinetic energy | 7- opaque    | 8- refraction |

- 1- We say the bouncing of light off a surface .....
- 2- The ..... its kind of energy related to the position or condition of the object .
- 3- The ..... Substances allow some light to pass through .
- 4- ..... Is a bending of light as it passes from one material to another .
- 5- The ..... Substances allow most light to pass through .
- 6- The ..... Its reflecting or absorbing light .
- 7- We name the ..... For the distance between the resting position to the highest or lowest point in the wave .
- 8- The energy of motion it's a .....

Answer the following questions:

- 1- Define the law of conservation of energy :

.....  
.....

- 2- What is the electromagnetic spectrum ?

.....  
.....

- 3- Draw an electromagnetic wave and determine the main parts of it :



**4- Answer the following questions :**

a- Name three things that earth gets from the sun light :

.....  
.....  
.....

b- Define the law of inertia :

.....  
.....

c- What is the meaning of the refraction ?

.....

d- What is the meaning of the diffraction ?

.....

e- What causes the refraction ?

.....  
.....

f- What kinds of substance cause light to bent ?

.....  
.....



*g- Compare the ways an orange and banana absorb and reflect the light?*

.....  
.....  
.....

*j- What is the meaning of the following terms*

*(transparent - translucent - opaque)*

.....  
.....  
.....

*h- What is the difference between the conductors - convections - radiation*

.....  
.....  
.....

*i- Identify the meaning of the thermal energy and how it can make the ice  
to melt ?*

.....  
.....



j- What is the difference between the velocity and the speed of an object ?

.....  
.....

k- When the car acceleration is about 2.5km/hr ... what that mean ?

.....  
.....

*Good luck to all of you*

Name :

مدرسة مقر الإمارات الدولية الخاصة

Grade 6

EMIRATES FALCON INT'L. PRIVATE SCHOOL

2015-  
2016

# Grade 6 science final revision sheet – second term







Some forms of energy

What is the meaning of the following terms? :

6- Energy :

.....  
.....

7- Potential energy :

.....  
.....

8- Kinetic energy :

.....  
.....

9- Law of the conservation energy :


.....  
.....


10- Complete the missing word :


The amount of the ..... An object has depends on the position and how massive it is .


Answer the following questions :

7- What are some forms of energy ?

 .....

 .....

 .....

 .....

8- Where does the energy produced by the dam come from ?

.....  
.....

9- What kind of energy changes take place as the rocket moves from the ground to its highest point ?

.....  
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10- How would you describe the energy in unlighted match and lighted match ?

.....  
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11- How does the energy changed in the flash light ?

.....  
.....

12- What are 3 forms of energy that can be changed in to electrical energy ?

4- .....

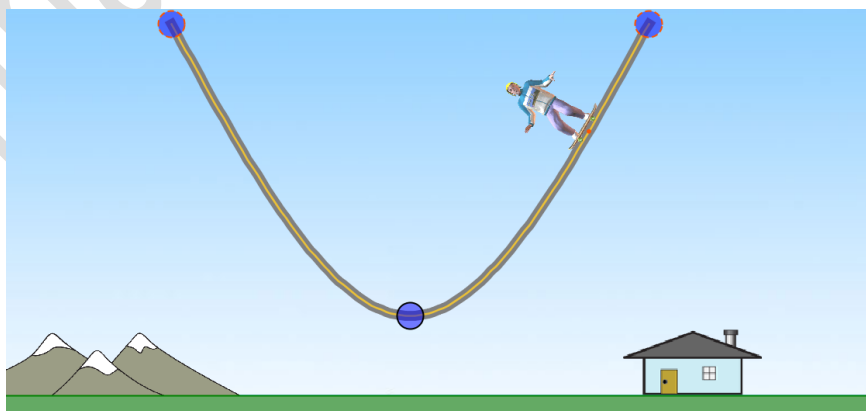
5- .....

6- .....

13- What is the most important idea about the conservation law ?

.....  
.....

14- Identify where is the potential energy and the kinetic energy ?





**Refraction and diffraction work sheet**

3- Answer the following questions :

g- What is the meaning of the refraction ?

.....

h- What is the meaning of the diffraction ?

.....

i- What causes the refraction ?

.....  
.....

j- What kinds of substance cause light to bent ?

.....  
.....

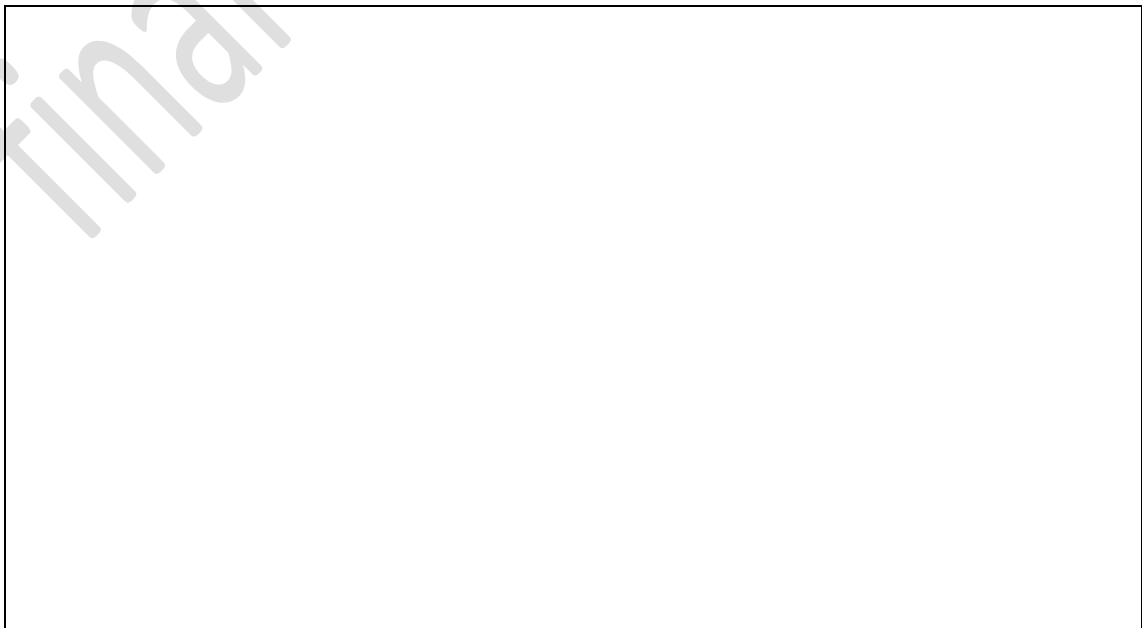
k- What causes the diffraction in the atmosphere ?

.....

l- Name some examples for refraction and diffraction ?

.....  
.....

4- Draw the track of the refracted light rays :





4- Choose the correct answer :

4- How many colors are the white light made of :

- a-7                                      b-6                                      c-5                                      d- 4

5- Which of these materials can reflect the light :

- a-mirror                                      b- soil                                      c- stone                                      d- paper

6- What is the name of the tools which separate the white light :

- a-stone                                      b- mirror                                      c- prism                                      d- fiber optics

5- Answer the following questions :

f- What is the meaning of reflection ?

.....

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g- How does light normally travel ?

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h- How can light change its direction ?

.....

i- How do the sun and the moon differ in the way people see them ?

.....

.....

j- How does the amount of the reflected light affected by the kind of the objects surfaces?

.....

.....

6- Draw the track of the reflected light :



Q1- Choose the correct answer :

6- What is the potential energy :

- d- the energy of motion
- e- stored energy
- f- nuclear energy

7- What is the kinetic energy?

- d- Heat energy
- e- Electrical energy
- f- Energy of motion

8- How many colors are the white light made of :

- a-7
- b-6
- c-5
- d- 4

9- Which of these materials can reflect the light :

- a-mirror
- b- soil
- c- stone
- d- paper

10- What is the name of the tools which separate the white light :

- a-stone
- b- mirror
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Q2- Fill up the blanks:

Potential energy - transparent - amplitude - reflection -  
translucent - kinetic energy - opaque - refraction

7- We say the bouncing of light off a surface .....

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9- The ..... Substances allow some light to pass through .

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Q3-Complete the following table :

Sort the different objects to ( transparent - translucent - opaque )

Book - door - wax paper - tissue - some kind of plastic - glasses - wall - window

<i>Transparent</i>	<i>Translucent</i>	<i>Opaque</i>

Q4 : Answer the following questions :

4- Which part of the human being body produce the insulin ?

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5- How many kingdoms the scientist classify the living things?

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6- What is the difference between the velocity and the speed of an objects?

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7- What are the two main property of the sound ?

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8- What is the energy ?

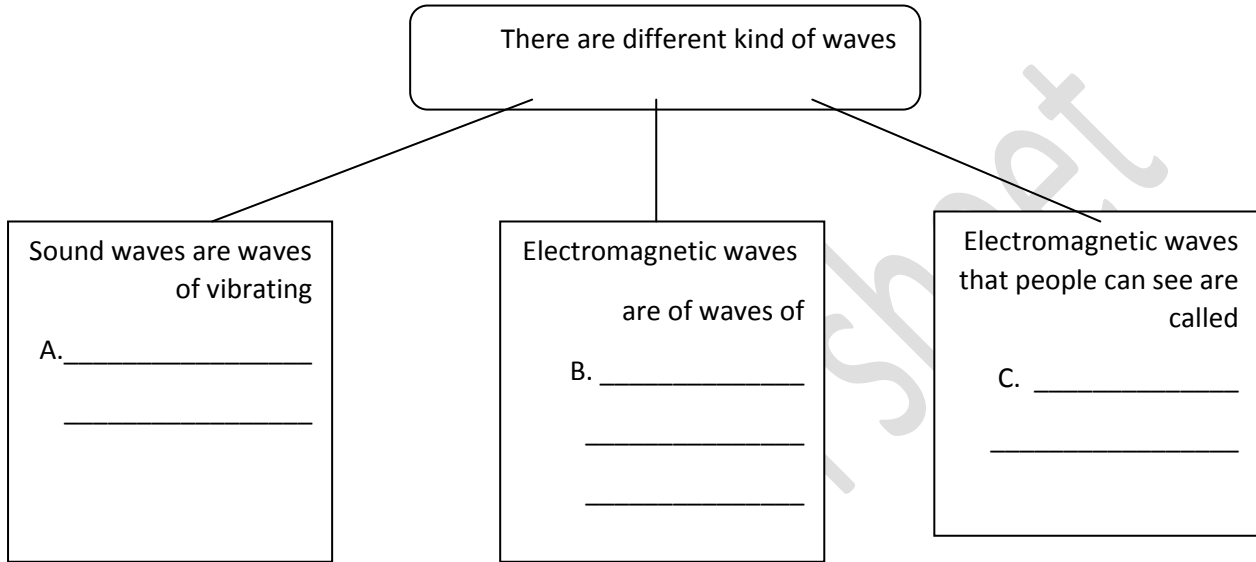
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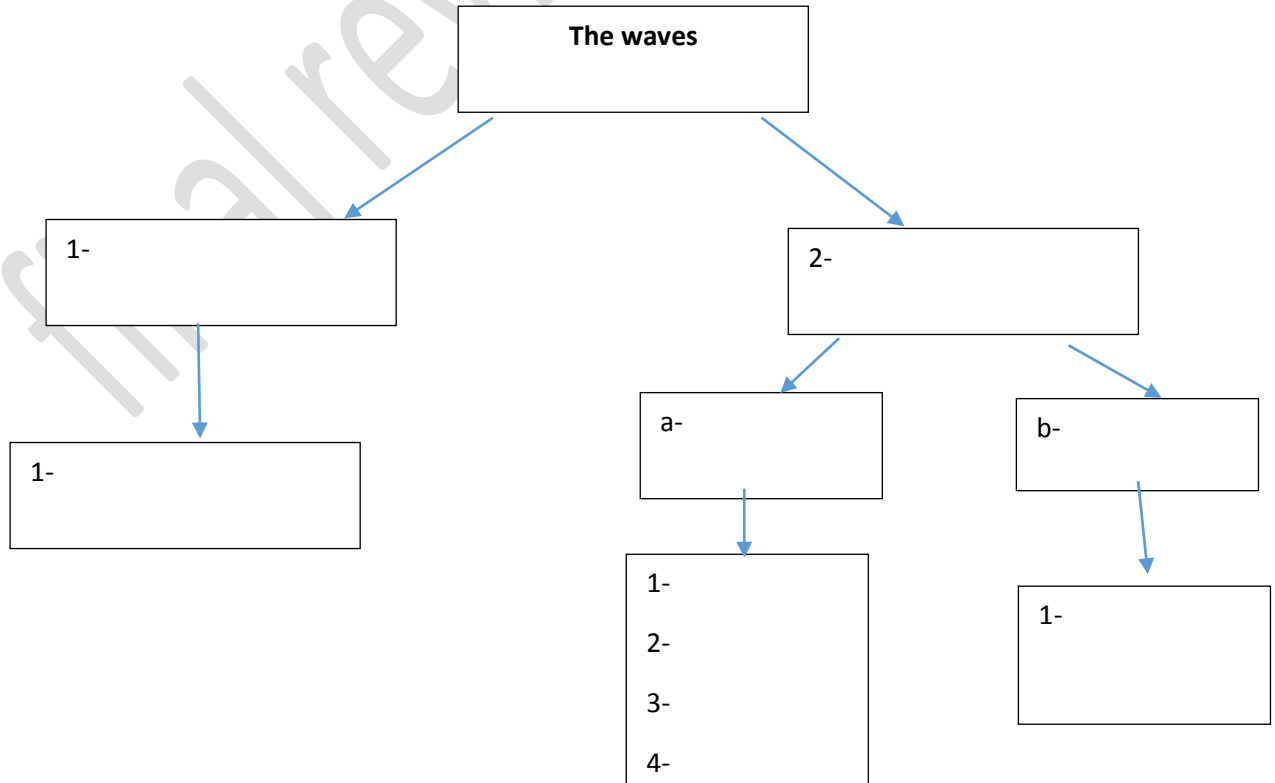
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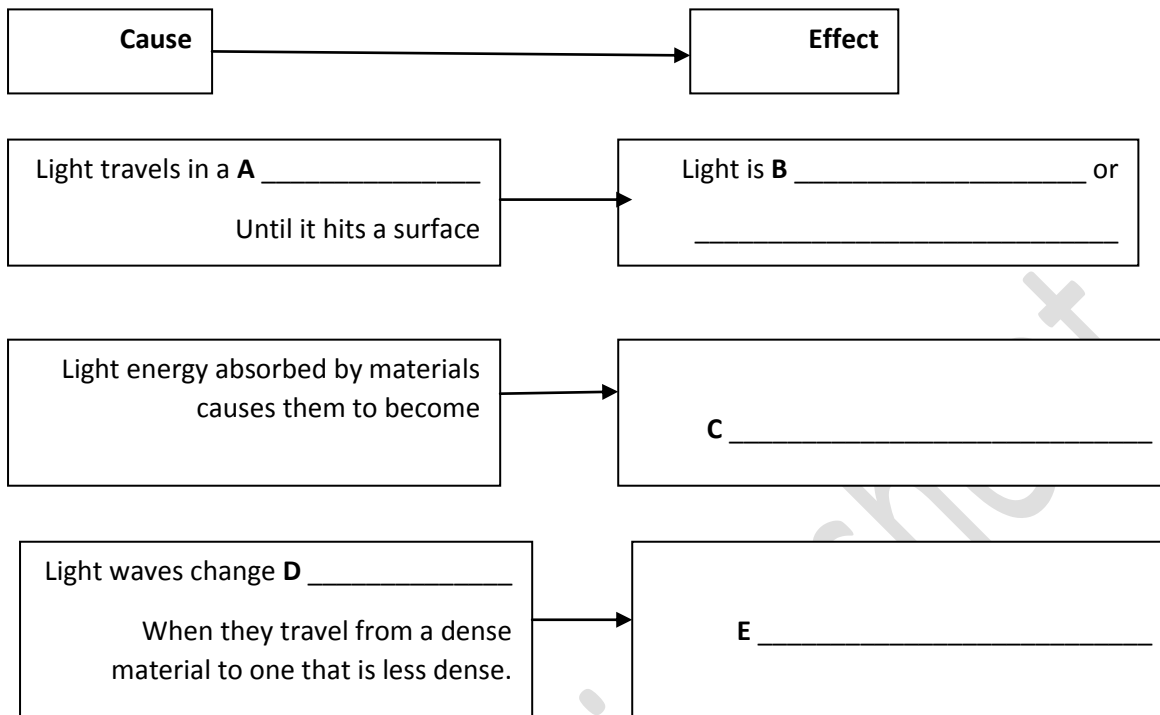


Complete the graphic organizer



: Complete the graph organizer about the waves :





: Fill in the blanks with the given words.

**Velocity, acceleration  
force, inertia, speed**

6. The cup didn't move by itself because of \_\_\_\_\_
7. \_\_\_\_\_ describe an objects speed and direction of travel.
8. \_\_\_\_\_ increases with greater force on an object.
9. Ahmed use great \_\_\_\_\_ to move the desk.
10. \_\_\_\_\_ is the distance that something moves in certain period of time.





Q-5: Question and answer.

3. Explain how a car battery works

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4. How does a change in thermal energy cause ice to melt.

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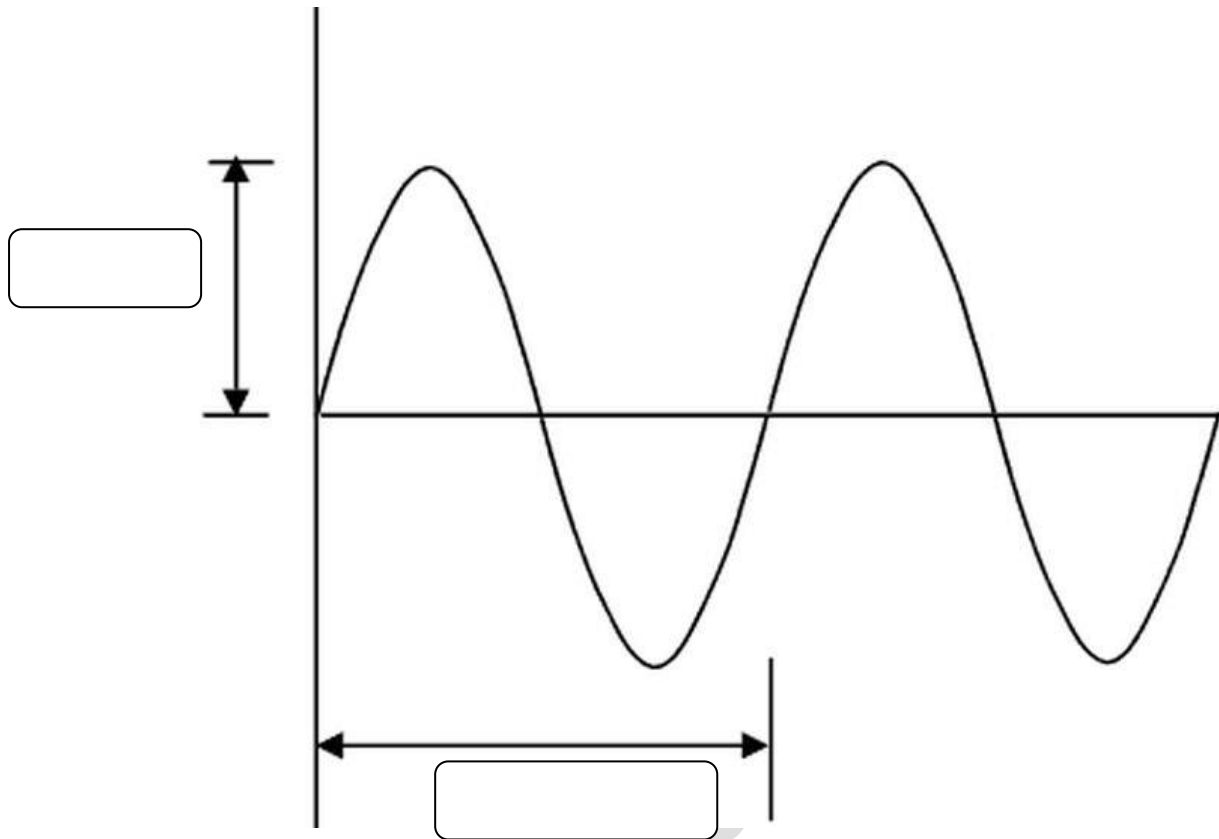
5. Write the law of motion or inertia

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2- Identify the different parts in the wave structure in the following picture:



Fill up the blanks :

- 12- Potential energy    2- transparent    3- amplitude    4- reflection  
5-translucent    6- kinetic energy    7- opaque    8- refraction

- 9- We say the bouncing of light off a surface .....
- 10- The ..... its kind of energy related to the position or condition of the object .
- 11- The ..... Substances allow some light to pass through .
- 12- ..... Is a bending of light as it passes from one material to another .
- 13- The ..... Substances allow most light to pass through .
- 14- The ..... Its reflecting or absorbing light .
- 15- We name the ..... For the distance between the resting position to the highest or lowest point in the wave .
- 16- The energy of motion it's a .....



Answer the following questions:

5- What are some forms of energy ?

.....  
.....

6- What is energy ?

.....  
.....

7- What is the differences between potential energy and kinetic energy?

.....  
.....

8- Define the law of conservation of energy :

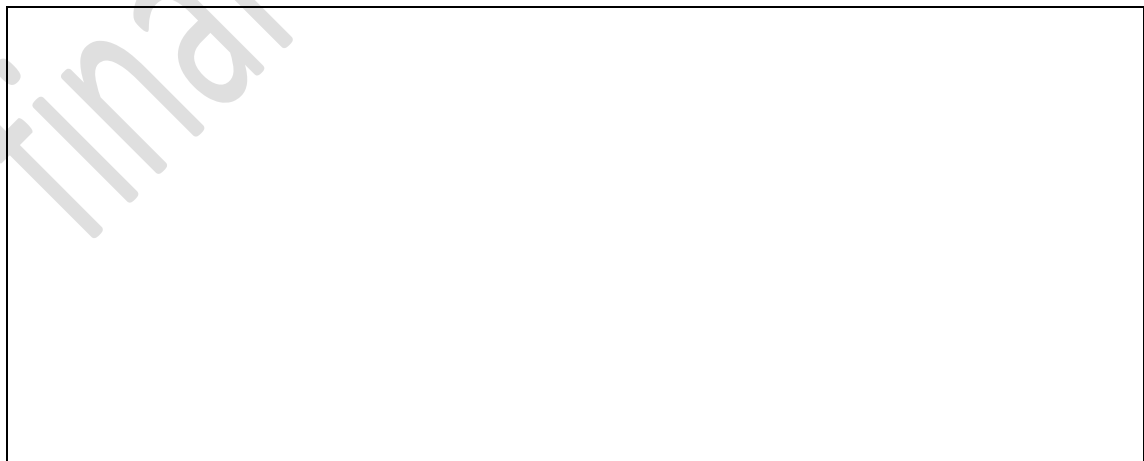
.....  
.....

9- What is the electromagnetic spectrum ?

.....  
.....

10- Define the different parts of the wave after that draw a wave and determine these parts on the draw :

.....  
.....  
.....  
.....  
.....





11- Name three things that earth gets from the sun light :

.....  
.....  
.....  
.....

12- Choose the correct answer :

7- How many colors are the white light made of :

- a-7                      b-6                      c-5                      d- 4

8- Which of these materials can reflect the light :

- a-mirror                      b- soil                      c- stone                      d- paper

9- What is the name of the tools which separate the white light :

- a-stone                      b- mirror                      c- prism                      d- fiber optics

13- Answer the following questions :

k- What is the meaning of reflection ?

.....  
.....

l- How does light normally travel ?

.....

m- How can light change its direction ?

.....

n- How do the sun and the moon differ in the way people see them ?

.....  
.....

o- How does the amount of the reflected light affected by the kind of the objects surfaces?

.....  
.....

p- Compare the ways an orange and banana absorb and reflect the light?

.....  
.....  
.....



14- Answer the following questions :

m- What is the meaning of the refraction ?

.....

n- What is the meaning of the diffraction ?

.....

o- What causes the refraction ?

.....

.....

p- What kinds of substance cause light to bent ?

.....

.....

q- What causes the diffraction in the atmosphere ?

.....

15- What is the meaning of the following terms  
(transparent – translucent – opaque)

.....

.....

.....

.....

16- What is the difference between the conductors – convections –  
radiation ?

.....

.....

.....

17- Identify the meaning of the thermal energy and how it can make  
the ice to melt ?

.....

.....



18- How does the electricity can be produced from the dam ? (identify the steps)

.....  
.....  
.....  
.....  
.....

19- Identify some another ways we can use it in order to generate the electricity ?

.....  
.....

20- What is the difference between the velocity and the speed of an object ?

.....  
.....

21- When the car acceleration is about 2.5km/hr ... what that mean ?

.....  
.....

22- Define the law of inertia :

.....  
.....