



- 1- The light energy that can be seen. (.....)
- 2- The main source of light on earth. (.....)
- 3- Darkened area formed behind an object once light falls on it. (.....)

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16- Red, Orange, Yellow, Green, blue, indigo and violet. (.....)

17- A beautiful phenomenon occurs in the sky after raining during a sunny day. (.....)

18- A tool that is used for separating the white light into seven colors. (.....)

19- A type of energy that travels in straight lines. (.....)

20- The seven colors of light which sun light is made up of. (.....)

21- The light which is produced by mixing seven spectrum colors. (.....)

22- The light that is impossible to be produced by mixing 2 of the other light colors. (.....)

23- The material that absorbs all light colors and permits its own color to pass. (.....)

24- The material that absorbs all light colors and reflects its own color. (.....)

25- The material that absorbs all light colors when the white light falls on it. (.....)

26- The material that reflects all light colors when the white light falls on it. (.....)

27- The light we get by mixing two of the primary colors light. (.....)

28- Red, green, and blue light. (.....)

29- Red light + green light + blue light. (.....)

30- The light we get by mixing blue, green and red light. (.....)

31- Yellow, purple and light blue. (.....)

32- The materials that get attracted to the magnet. (.....)

33- Black rock of iron ores and known as magnetite. (.....)

34- The material that are not attracted to the magnet. (.....)

35- An area of the magnet where the magnetic force is most powerful. (.....)



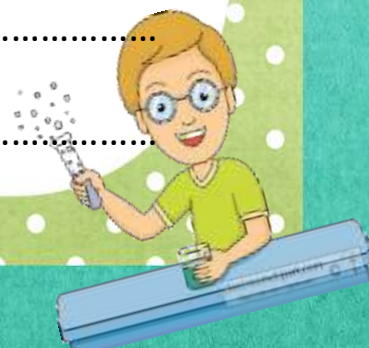


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- 36- The two end of the magnet where the magnetic force is most powerful. (.....)
- 37- The space around a magnet in which the magnetic force appears. (.....)
- 38- The ability of the magnet to attract the magnetic materials existed in its field. (.....)
- 39- The pole of the magnet which points to the south direction. (.....)
- 40- The pole of the magnet that attracts with the north pole of another magnet. (.....)
- 41- The pole of the magnet that repels with the south pole of another magnet. (.....)
- 42- A set is used to locate the main four geographic directions. (.....)
- 43- An object that consists of a small light magnetic needle that can spin freely around a fixed axis. (.....)
- 44- Natural magnet which is one of iron ores. (.....)
- 45- A device used to change the electric energy into magnetic energy. (.....)
- 46- A set that is used to change the mechanical energy into electrical energy. (.....)

Give reason for:-

- 1- The formation of images through narrow whole.
.....
- 2- Shadow is formed when the light falls on an opaque object.
.....
- 3- The picture that formed in the camera is inverted & minimized.
.....
- 4- Glass is a transparent material.
.....





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5- Cartoon is an opaque material.

6- You can see your image in the plane mirror.

7- You can see objects in the lightened room.

8- The pencil which is partially immersed in water seems broken.

9- The rainbow appears in the sky after rainfall.

10- A red transparent sheet seems red when light falls.

11- A banana fruit seems yellow when sun light falls on it.

12- We see a white paper as it is.

13- Red, green and blue are primary colors.

14- A red apple seems black when you look at it from a green sheet.

15- The magnet attracts iron but doesn't attract copper.

16- Iron is a magnetic material, but copper isn't.

17- When you approach a magnet to paper clips, they'll be attracted to the two magnetic poles.

18- When an electric current flows through a wire that is put beside a compass. Its needle deflects.





What will happen when:-

2- We mix blue light + green light.

3- We mix red light + green light.

4- We mix red light + blue light + green light.

5- An electric current flows through a wire around a wrought iron.

Complete the following:-

1- Light is a form of energy called

2- is formed when light falls on an opaque object.

3- The nearer object to the light source has the shadow.

4- The is the main source of light on earth.

5- From the natural source of light and & from the artificial source,.....

6- The material which allows most light to transmit through is called

7- The material which we can see objects clearly behind it is

8- Light can't pass through materials.

9- Light can easily transmit through and material.

10- Light bouncing when it falls on an object is called

11- is the change in the direction of light rays why they transmit between 2 different media.

12- The prism separates sun light into





- Choose the correct answer:**

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4- We can see things as a result of rays.

a- reflection b- refraction c- analyses

5- Which of the following is considered as a secondary color?

a- yellow b- green c- blue

6- The natural magnet is discovered since Ago

a- 2000 b- 3500 c- 2050

7- is a magnetic material.

a- iron b- aluminum c- copper

8- When the magnet is hanged freely it will take the direction

.....

a- north and east b- east and south c- south and north

9- The compass contains

a- horse shoe magnet b- bar magnet c- small magnetic needle

10- When the compass is put beside a wire carrying electric current

.....

a- no deflection occurs b- the needle deflected

c- the needle destroyed

Put (✓) or (X) in front of the following then correct the wrong one:

1- The cartoon paper is an opaque object ()

.....

2- The body nearer to the light source has the greater shadow ()

.....

3- The red color is the first spectrum light, while the violet color is the last spectrum color ()

.....

4- The green table reflected all light colors ()

.....





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5- The magnetic field can be seen by detected iron filings ()

.....

6- The magnet has three poles ()

.....

7- The electromagnet losses its power when the electric current is cut.
()

.....

8- The dynamo of the bicycle is in the shape of a cube touches the tire.
()

.....





- | | | |
|--------------------------------|---------------------------------|----------------|
| 1- Visible spectrum | 2- The sun | 3- Shadow |
| 4- Semi transparent | 5- Opaque | 6- Transparent |
| 7- Opaque | 8- irregular reflection | |
| 9- Regular reflection | 10- irregular reflection | |
| 11- Light reflection | 12- Regular reflection | |
| 13- Light refraction | 14- light separation | |
| 15- 7 spectrum colors | 16- 7 Spectrum colors | |
| 17- Rainbow | 18- The prism | |
| 19- light energy | 20- spectrum colors | |
| 21- White light | 22- Primary light colors | |
| 23- Transparent colored object | 24- Opaque colored object | |
| 25- Black opaque object | 26- White opaque object | |
| 27- Secondary light colors | 28- Primary light colors | |
| 29- White light | 30- White light | |
| 31- Secondary light colors | 32- Magnetic material | |
| 33- The natural magnet | 34- non-magnetic material | |
| 35- 2 magnetic poles | 36- 2 magnetic poles | |
| 37- Magnetic field | 38- Magnetic force | |
| 39- South pole | 40- South Pole | |
| 41- South pole | 42- Compass | |
| 43- Compass | 44- Magnetite | |
| 45- Electromagnet | 46- Electric generator (Dynamo) | |

Give reason for:-

- 1- Due to "light travels in straight lines ".
- 2- Due to "light travels in straight lines ".
- 3- Due to "light travels in straight lines ".





- ### What will happen when:-

-



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Complete the following:-

- | | |
|--|--------------------------------------|
| 1- Visible spectrum | 2- Shadow |
| 3- bigger | 4- Sun |
| 5- Sun, stars & electric lamp, kerosene lamp, candles | |
| 6- transparent | 7- transparent |
| 8- opaque | 9- transparent and translucent |
| 10- light reflection | 11- light refraction |
| 12- 7 spectrum colors | 13- white light |
| 14- reflected | 15- transmitted |
| 16- repel & attract | 17- north pole & south pole |
| 18- Electric generator [dynamo] | 19- Electro magnet |
| 20- Copper coil turns & the motion & use a strong magnet | |
| 21- Compass | 22- Electricity |
| 23- Cranes [big size winches] & electric bell & electric mixer & T.V | |
| 24- dynamo | 25- copper coil turns, the batteries |

Choose the correct answer:

- 1- a- straight
- 2- c- opaque
- 3- a- visible spectrum
- 4- a- reflection
- 5- a- yellow
- 6- a- 2000
- 7- a- iron
- 8- c- south and north
- 9- c- small magnet needle
- 10- b- the needle deflected





- 1- (v)
- 2- (v)
- 3- (v)
- 4- (X) white.
- 5- (v)
- 6- (X) ,two
- 7- (v)
- 8- (X), small cylinder