

India's Number 1 Education App

PHYSICS

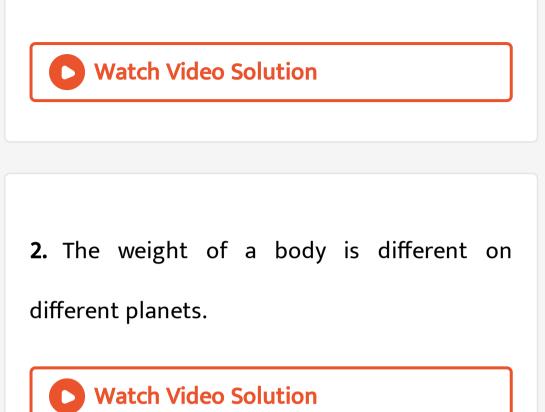
BOOKS - NAVNEET SCIENCE (HINGLISH)

SCIENTIFIC REASONS



1. If a feather and a stone are released from the top of a building simultaneously, the stone

reaches the ground earlier than the feather.



3. With a specific initial velocity, we can jump

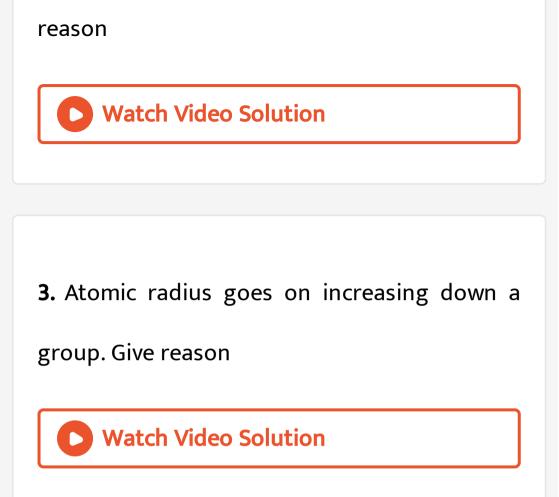
higher on the moon than on the earth.

Periodic Classification Of Elements

 Atomic radius goes on decreasing while going from left to right in a period. Give reason

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2. Metallic character goes on decreasing while going from left to right in a period. Give



4. Elements belonging to the same group have

the same valency. Give reason



5. Zero group elements (inert gases) are called

noble gases. Give reason



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6. While going down the second group, the reactivity of the alkaline earth metals increases.



7. The third period contains only eight elements even though the electron capacity of the third shell is 18.



8. Fluorine is the most reactive among the

halogens.

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Chemical Reactions And Equations

1. Grills of doors and windows are always painted before they are used. Give reason

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 Physical states of reactants and products are mentioned while writing a chemical equation.

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3. It takes time for pieces of Shahabad tile to disappear in HCI, but its powder disappears rapidly.



4. When the gas formed on heating lime stone

is passed through freshly prepared lime water,

the lime water turns milky.



5. It is recommended to use air tight container

for storing oil for long time. Give reason



6. Concentrated hydrochloric acid reats more vigorously with calcium carbonate than dilute hydrochoric acid.



7. Zinc powder reacts much faster with dil. H_2SO_4 than does granulated zinc of the same mass. Give reason



Effects Of Electric Current

1. For electric power transmission, copper or

aluminium wire is used.

2. In practice the unit kW.h rather than the joule, is used for the measurement of electric energy.

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3. Tungsten is used to make a solenoid type

coil in an electric bulb.

4. The coils in heating devices such as a toaster and electric iron are made of an alloy such as Nichrome, rather than a pure metal. Give reason



5. The coils in heating devices such as a toaster and electric iron are made of an alloy such as Nichrome, rather than a pure metal. Give reason



6. In an electric iron, the coil of high resistance

is kept between mica sheets.



7. The material used for fuse has low melting

point.

8. A fuse should be made of a material of low

melting point. Give reason





1. Even though heat is supplied to boiling

water, there is no increase in its temperature.



2. Burns from steam are worse those from boiling water at the same temperature. Give reason

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3. In wingter, the pipelines carrying water burst in cold countries.

4. if crushed ice is pressed and then the pressure is released, a lump of ice is formed.

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5. In cold countries, in winter, even when the water of lakes freezes, aquatic animals and plants can survive. Give reason



6. Water droplets are seen on the outer surface of a cold drink bottle. Give reason
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7. During cold nights, sometimes dew is

formed. Give reason



8. When you enter a warm room after being outside on a frosty early morning, your spectacles 'steam up'. Give reason



9. A plastic bottle, completely filled with water,

when kept in a freezer, is likely to break. Give

reason



10. The outer surface of a beaker containing

ice cubes becomes wet in a short while. Give

reason



Refraction Of Light

1. A pencil dipped in water obliquely appears

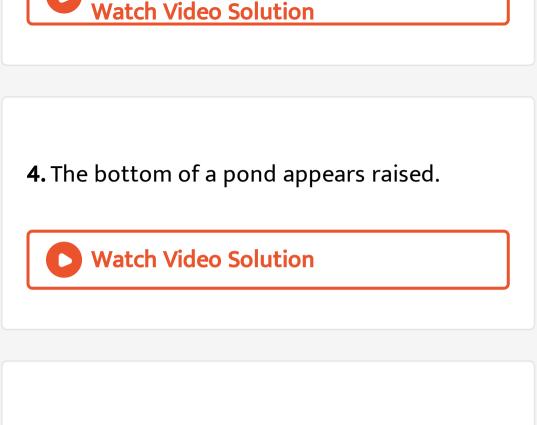
bent at the surface of water. Give reason

2. When a pencil is partly immersed in water and held in a slanting position, it appears to be bent at the boundary separating water and air. Give reason

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3. The shadow of the edge of an empty vessel is formed due to the slanting rays of the sun. When water is poured in the vessel, the shadow is shifted.





5. While shooting a fish in a lake, the gun is

aimed below the apparent position of the fish.



6. The sun is seen on the horizon a little before sunrise.

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7. The sun is seen on the horizon for sometime

even after sunset.





A simple microscope is used for watch repairs. Give reason
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2. Watch repairers use a magnifying glass. Give

reason

3. In old aget a bifocal lens is necessary for

some persons. Give reason

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4. A person suffering from myopia

(nearsightedness) uses spectacles of concave

lenses. Give reason

5. A person suffering from hypermetropia (farsightedness) uses spectacles of convex lenses. Give reason



6. You cannot enjoy watching a movie from a

very short distance from the screen in a

cinema hall. Give reason

7. We cannot clearly see an object kept at a distance less than 25 cm from the eye. Give reason

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8. One can sense colours only in bright light.

Give reason

9. The rays of light travelling through the optical centre of a lens pass without changing their path.



10. A convex lens converges the rays of light falling on it.

11. A concave lens diverges the rays of light

falling on it. Give reason

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12. When a burning stick of incense is moved

fast in a circle, a circle of red light is seen.

Give reason

13. Colour-blind persons are unable to

distinguish between different colours.

Give reason



14. It is risky to issue a driving license to a person suffering from colour-blindness.

Give reason

1. Sodium is always kept in kerosine.

Give reason

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2. Why is sodium stored in kerosine ?

3. Calcium floats on water during the reaction

with water.

Give reason



4. Generally the ionic' compounds have high

melting points.

Give reason

5. Lemon or tamarind is used for cleaning

copper vessels turned greenish.



6. Metals are good conductors, while nonmetals are poor conductors of electricity.

Give reason

7. When zinc granules are added to copper sulphate solution, the blue coloured solution-turns colourless.

Give reason

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8. When an iron nail is dipped into a copper solution, a shiny coat of copper is formed on the nail.

Give reason





9. Cryolite (Na_3AlF_6) and fluorspar (CaF_2)

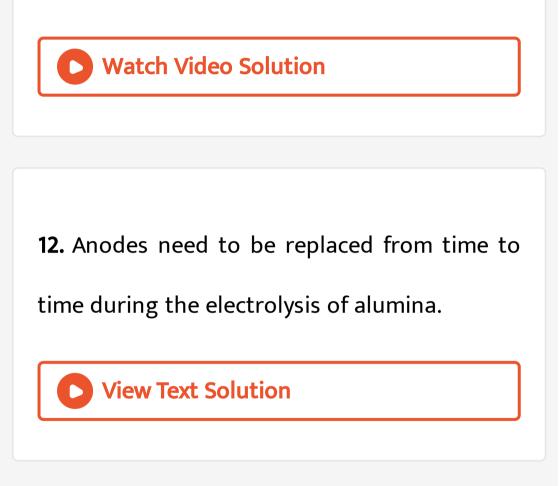
are added to the electrolytic mixture containing pure alumina.

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10. Pine oil is generally added in the froth

floatation process. Explain.

11. Froth floatation process is based on



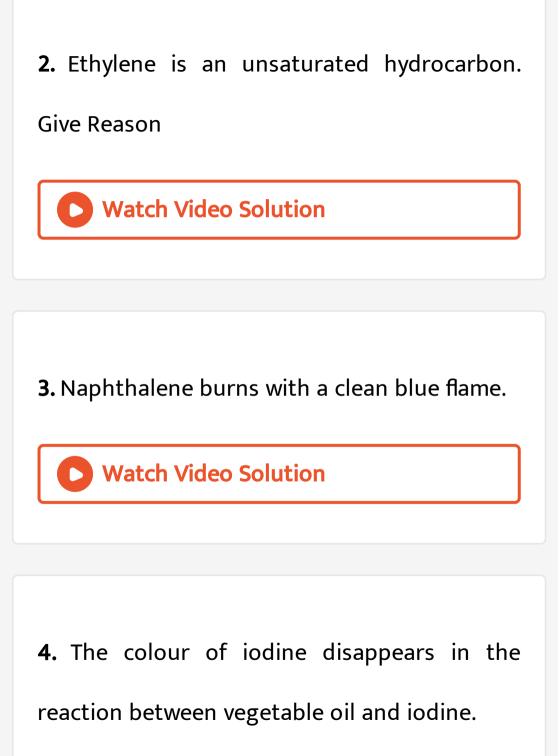
13. Silver amalgam is used for filling dental cavities.



Carbon Compounds

 Carbon atoms are capable of forming an unlimited number of compounds.

Give Reason.



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5. The hydrogenation of vegetable oil in the presence of nickel catalyst forms vanaspati ghee.

Give reason.

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Space Missions

1. Why are geostationary satellites not useful

for studies of polar regions ?



Assignment

1. A convex lens is known as a converging lens.

Give reason.

2. A concave lens is called a diverging lens.

Give Reason

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3. Sodium is more reactive than aluminium.

True/False

4. Sodium is more reactive than aluminium.

True/False