
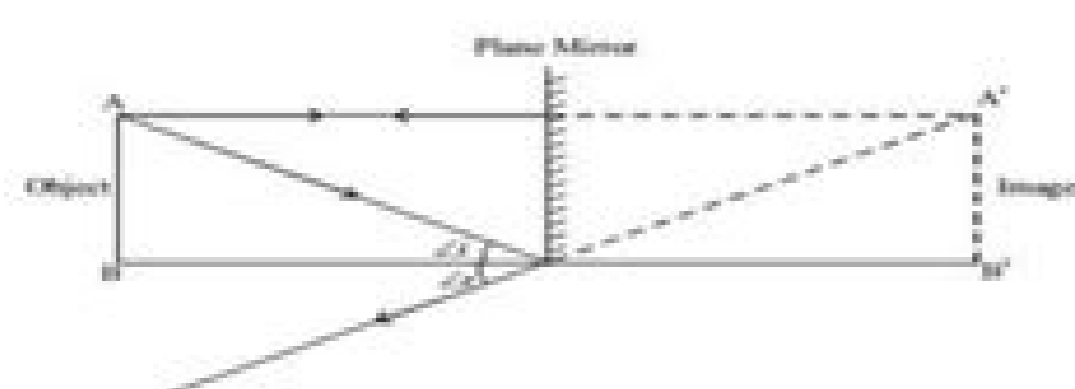


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1. Virtual (imaginary) & Erect : The image that do not form on screen.  
Real images can be recorded on the screen.
2. Laterally inverted (The left side of object appear on right side of image)
3. The size of image is equal to that of object.
4. The image formed is as far behind the mirror as the object is in front of it.

**Reflection of light by spherical Mirrors**

Mirrors, whose reflecting surface are curved inward or outward spherically are called spherical mirror.

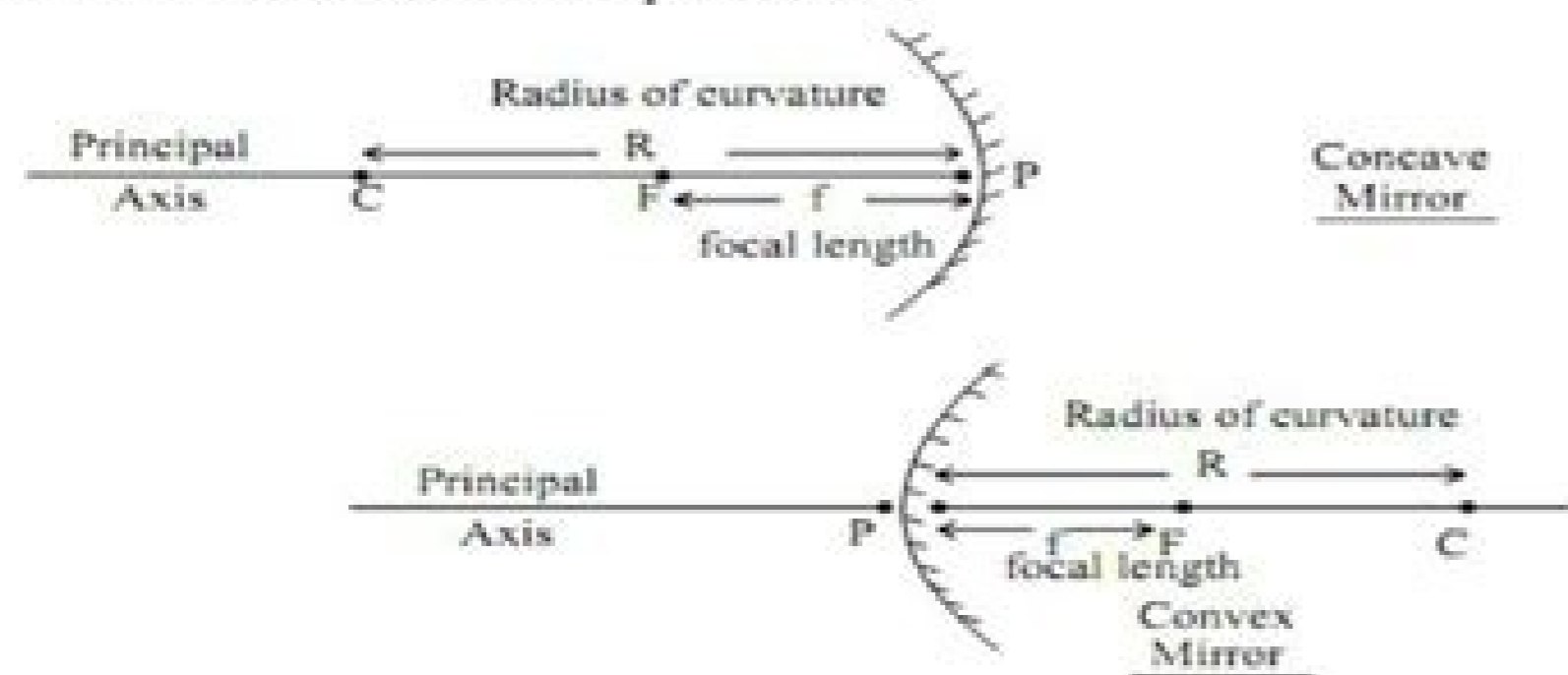
For example - Spoon → The curved surface of shinning spoon can be considered as curved mirror.



If it is curved inward → Act as concave mirror

If it is curved outward → Act as a convex mirror.

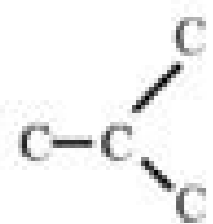
**Few Basic terms related to Spherical Mirror**



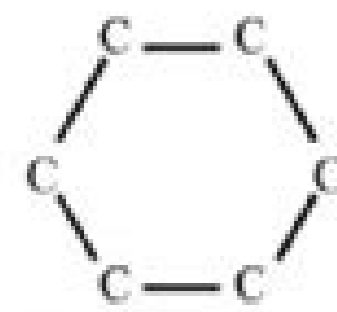
On the basis of structures the hydrocarbons can be:



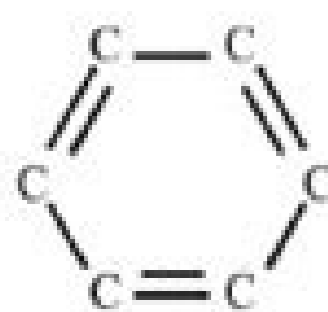
**Straight chain**



**Branched**

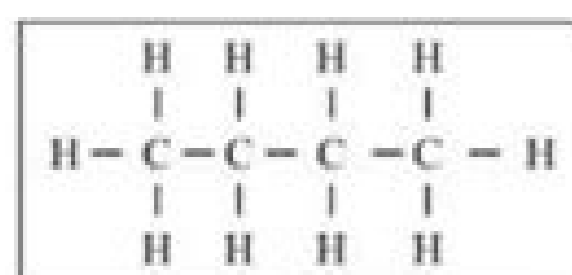


**Cyclic saturated**



**Cyclic unsaturated**

**Structural isomers** : These are the compounds having identical molecular formula but different structures. For example, isomers of butane.



Straight Chain Isomer

## Intext Exercise 1

## Question 1:

Why are some substances biodegradable and some non-biodegradable?

## Solution 1:

Substances which can be acted upon by microorganisms (decomposer) are called biodegradable. For example- vegetable wastes, paper, cotton etc. On the other hand, materials which are not acted upon by decomposers are called non-biodegradable. For example- plastic, glass, polythene etc.

## Question 2:

Give any two ways in which biodegradable substances would affect the environment.

## Solution 2:

(a) They will serve as breeding ground for flies and mosquitoes which are carriers of disease like cholera, malaria etc. (b) They produce foul smell, thus causing air pollution.

## Question 3:

Give any two ways in which non-biodegradable substances would affect the environment.

## Solution 3:

(a) Excess use of non-biodegradable pesticides and fertilizers run off with rain water to water bodies causes water pollution. (b) They may choke the sewer system of city or town that may overflow over roads.

## Intext Exercise 2

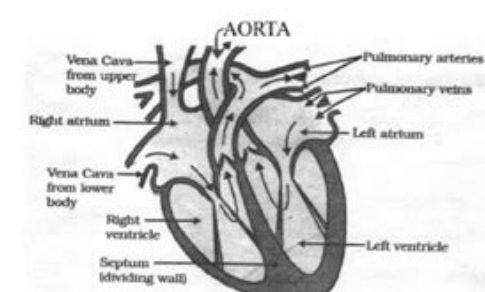
## Question 1:

What are trophic levels? Give an example of a food chain and state the different trophic levels in it.

## Solution 1:

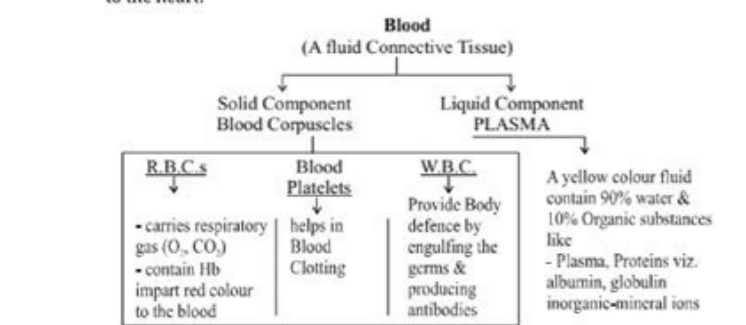
Each step in a food chain constitutes a trophic level.

For example:



Section view of the Human Heart

- **Double Circulation** : Blood travels twice through the heart in one complete cycle of the body.
  - **Pulmonary circulation** : blood moves from the heart to the lungs and back the heart.
  - **Systemic circulation** blood moves from the heart to rest of the body and back to the heart.



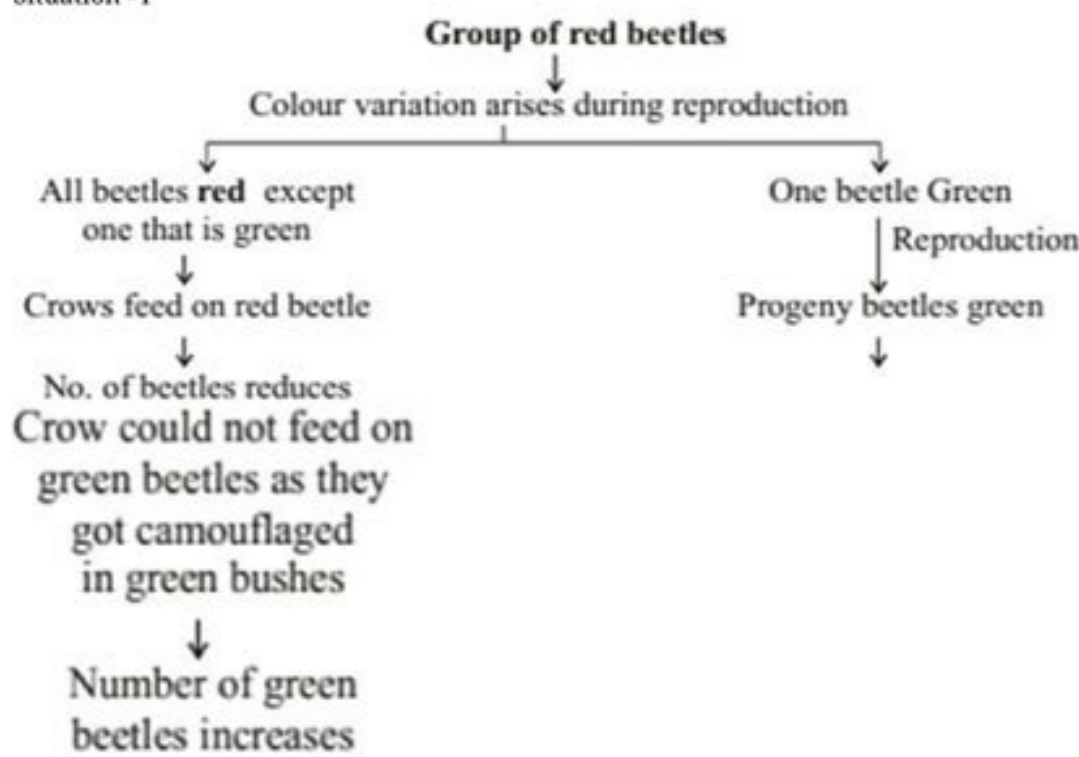
- **Lymph** - a yellowish fluid that escapes from the blood capillaries into the intercellular spaces. Lymph flows from the tissues to the heart assisting in transportation and destroying germs.

This shows that half the children will be boys and half will be girls. All children will inherit an X chromosome from their mother regardless whether they are boys or girls. Thus sex of children will be determined by what they inherit from their father, and not from their mother.

## EVOLUTION

Evolution is the sequence of gradual changes which takes place in the primitive organisms, over millions of years, in which new species are produced.

## Situation - I



**Situation 1** : Green beetles got the survival advantage or they were naturally selected as they were not visible in green bushes. This natural selection is exerted by crows resulting in adaptations in the beetles to fit better in their environment

## Situation-II

analyze your preparation level. All in One Class 10 Solution Science All in One Class 10 Solution conform to several state boards and are at the same time, solutions, you can get the right procedure to answer the questions of the All in One Class 10 solutions Science. Step by Step answers to all the exercise questions are provided by experts to help you prepare better in your examination. It is also referred to as a diverging lens.The Convex LensThe central region of the lens is thicker than the periphery. The All in One Class 10 solutions designed by Selfstudys experts is based on the latest syllabus. • For a concave mirror, m is +ve when image formed is virtual and m is -ve, when image formed is real. For your convenience we have curated direct link to NCERT Book Class 10 Science so that you need not to keep search for it. Students who are in Class 10 or preparing for any exam which is based on Class 10 Science can refer NCERT Book for their preparation. • The two laws of reflection are: (i) the incident ray, the reflected ray and the normal (at the point of incidence), all lie in the same plane. All in One Class 10 Solution are prepared by the well-qualified teachers who follow the systematic approach for solving the questions, so clearing your doubts and getting higher marks in the exam is no more a tough task. • According to New Cartesian Sign Convention, for spherical mirror. Click Here to go to the Amazon website to buy NCERT Book Class 10 Science Online. A diverging mirror is another name for It creates visuals that are virtual, upright, and small.Uses: for security, in automobiles as a rear-view mirror, and for street illumination.Refraction of the AtmosphereBecause the Earth's atmosphere is thin at the top and dense at the bottom, light refracts.Examples of it are- Rainbow Twinkling StarsEarly Sunrise Late sunsetLensA piece of transparent material with two refracting surfaces, at least one of which is curved, and whose refractive index differs from that of the surrounding material.Concave LensThe central section of the lens is thinner than the periphery. It is always advised to start your preparation of the exam by making your base strong of the subject and then going ahead with the weekly practice sessions. All the questions asked in the All in One Class 10 textbook are answered accurately in our Science Chapter 10 Light Reflection And Refraction Solutions with a complete explanation of every step of the answer. Students will learn about light phenomena such as refraction and reflection in Chapter 10 of Class 10 Science. Click Here to go to the page where you can download NCERT Science Book Class 10 PDF. • Absolute refractive index(n) of a medium is the ratio of speed of light in vacuum or air(c) to the speed of light in the medium(v) i.e. • Refraction of light is the phenomenon of change in the path of light in going from one medium to another. A converging mirror is another name for it.Images are always genuine, reversed, and can be enlarged depending on position, except when an object is placed between the pole and the focus.It's used in make-up and shaving mirrors, dentist mirrors, floodlights, and so on.Convex MirrorInside is polished spherical glass. Also equal to the image's height to the object's height NCERT Book for Class 10 Science Chapter 10 Light - Reflection and Refraction is available for reading or download on this page. Class 10 Study Material - Notes, Important Questions, Practice Tests To prepare further for Class 10 Science subject you can get Revision Notes, Important Questions at aglsem.com for free. Their products range from Science Solutions, children's books, activity books, diaries and other educational books. Digital NCERT Books Class 10 Science pdf are always handy to use when you do not have access to physical copy. Here students can get class & chapter wise Class 10 NCERT notes, which is very helpful to understand the subject and its chapter in a good manner. You will have the PDF on your device to study offline. To help students in solving the questions of the exam, we have come up with top-notch All in One Class 10 Science Chapter 10 Light Reflection And Refraction Solutions. Light is EM waves wave-length 400 nm to 750 nm.Light CharacteristicsLight propagation along a rectilinear axisIn air/vacuum, light travels at a speed of 3 108 m/s.The medium determines the speed of light.Light exhibits properties such as reflection, refraction, interference, diffraction, polarisation, and so on.The Refraction LawLight refraction is the bending of a light ray as it travels from one medium to another.As it passes from rarer to denser material, a light ray bends towards the normal.And deviates from the usual as it progresses from denser to rarer media.Because the speed of light differs between the two mediums, light refracts.Internal Total Reflection: The ray was completely reflected back to the denser medium.Plane MirrorIs a highly polished appearing glass on one side.Creates a simulated and erect imageThe distance between the object and the mirror equals the distance between the image and the mirror.The image has the same dimensions as the thing.The image has been inverted laterally.Used in kaleidoscopes, periscopes, and other similar devices.Concave MirrorThe spherical glass that has been polished on the outside. You can access our All in One Class 10 Solutions at free of cost. You can solve your all difficulties and get to understand the step by step answers to the questions asked in the All in One Class 10 Science Solutions. With the help of the link provided below. You can simply visit the link to go to amazon website and order online. Scroll down for Light - Reflection and Refraction from NCERT Book Class 10 Science Book & important study material. The All in One Class 10 solutions has been drafted in an easy language for the students after taking into learning the overall syllabus of the subject. • The linear magnification produced by a lens is • Power of the combination of lenses P = p1 + p2 + p3 ...

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