

KENDRIYA VIDYALAYA GAIL VIJAIPUR

Autumn Break Home Assignment

Session-2023-24

CLASS: VI

- Prepare a chart on chapter **Light , shadow and reflection.**
- Solve the following case studies

Measurements and Distance

Observe a tailor working on a sewing machine. The sewing machine remains at the same location while its wheel moves with a circular motion. It also has a needle that moves up and down continuously, as long as wheel rotates.

1. Select the one that remains at rest when you were making the above observation.
(a) Tailor (b) Sewing machine
(c) Both tailor and sewing machine (d) none of the above is correct
2. In this observation the circular motion was observed in
(a) Wheel of machine (b) Needle of machine
(c) Both (a) and (b) (d) none of the above is correct
3. The up and down motion of the needle of sewing machine can be classified as
(a) Rotator motion (b) circular motion
(c) Periodic motion (d) none of these

Electricity and Circuits

An electric bulb has a filament that is connected to the terminals. The two terminals of filament are fixed with two thick wires provides support to it. These terminals are fixed in such a manner that they do not touch each other.

1. Where is the filament fixed in the electric bulb?
(a) Near the positive terminal (b) Near the negative terminal
(b) In the middle (d) none of the above is correct
 2. Filament is
(a) A thin wire that gives off light when bulb is switched on
(b) Fixed to two thick wires which provides support to it
(c) Both the above are correct
(d) None of these is correct
 3. Which of the following statement(s) is/are correct?
(a) The two terminals of a bulb are fixed in such a way that they do not touch each other.
(b) The two terminals of a bulb are fixed in such a way that they touch each other.
(c) The two terminals of a bulb are connected to the same terminal of the electric cell.
(d) None of the above is correct
- Make a Circuit board based on a bulb, switch and conductor wire.

Note: Solve the above mentioned questions in your notebook. No need to make an extra notebook for home assignment.

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CLASS: VII

- **Draw a chart on working of Heart and Kidney**
- **Solve the following CCT case study**

Sewage is wastewater released by homes, industries, hospitals, offices and other users. It also includes rainwater that has run down the street during a storm or heavy rain. The water that washes off roads and rooftops carries harmful substances with it. Sewage is a liquid waste. Most of it is water, which has dissolved and suspended impurities. In a home or a public building generally one set of pipes brings clean water and another set of pipes takes away wastewater. Imagine that we could see through the ground. We would see a network of big and small pipes, called sewers, forming the sewerage. It is like a transport system that carries sewage from the point of being produced to the point of disposal, i.e. treatment plant. Manholes are located at every 50 m to 60 m in the sewerage, at the junction of two or more sewers and at points where there is a change in direction.

Q.1) Manholes are located at how much distance in the sewerage?

(A) 50 to 60m. (b) 60 to 50m. (c) 50m. (d) 100m

Q.2) Sewage is waste water released by which of the following?

(a) Homes. (b) Industries. (c) Offices. (d) All

Q.3) where does the sewers transports the sewage after collecting all the wastewater from various sources?

(a) Treatment plant. (b) Plant. (c) Reservoir. (d) None

Q.4) Define sewers.

Que. 5) Rain water that runs down in the streets during heavy rainfall is also waste water is it true or false. explain your comment.

- Write one case study and add four questions there to solve critically.
- Write a report on sustainable development and its importance for future.

Note: Solve the above mentioned questions in your notebook. No need to make an extra notebook for home assignment.

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CLASS: VIII

- Write two CCT based case studies including 4 questions of each.
- Write a report on Reproductive Health of female in India
- Solve the following case study based critical thinking based question are

Secondary Sexual: Characters you have learnt that testes and ovaries are the reproductive organs. They produce the gametes, that is, sperms and ova. In girls, breasts begin to develop at puberty and boys begin to grow facial hair, that is, mustaches and beard. As these features help to distinguish the male from the female, they are called secondary sexual characters. Boys also develop hair on their chest. In both, boys and girls, hair grows under the arms and in the region above the thighs or the pubic region. The changes which occur at adolescence are controlled by hormones. Hormones are chemical substances. These are secretions from endocrine glands, or endocrine system. The male hormone or testosterone begins to be released by the testes at the onset of puberty. This causes changes in boys about which you have just learnt, for example, the growth of facial hair. Once puberty is reached in girls, ovaries begin to produce the female hormone or estrogen which makes the breasts develop. Milk secreting glands or mammary glands develop inside the breasts. The production of these hormones is under the control of another hormone secreted from endocrine gland called pituitary gland. Role of Hormones in Initiating Reproductive Function Endocrine glands release hormones into the bloodstream to reach a particular body part called target site. The target site responds to the hormone. There are many endocrine glands are ductless glands in the body. The testes and ovaries secrete sex hormones. You have just learnt that these hormones are responsible for the male and female secondary sexual characters. Further, the sex hormones are under the control of hormones from the pituitary gland. The pituitary secretes many hormones, one of which makes ova mature in the ovaries and sperms form in the testes.

Q.1) Sex hormones are under the control of hormones from the Gland.

(a) Adrenal. (b) Pituitary. (c) Thyroid. (d) Thymus

Q.2) which among the following is the example of a major male sex hormone?

(a) Testosterone. (b) Estrogen. (c) Prolactin. (d) Follicle stimulating hormone

Que. 3) the endocrine gland is generally also known as

- Draw a chart on Chapter Light
- Make a working model based on Ecosystem for health and well being.
- Name the glands present in our body and the hormones they secrets.

Note: Solve the above mentioned questions in your notebook. No need to make an extra notebook for home assignment.

CLASS-IX SCIENCE

Note :- Complete the holiday homework in your science notebook ,no need to make an extra notebook for home assignment .

Q1. Write the names and symbols of elements upto atomic number 30.

Q2. Write the names and symbols of various ions given in your ncert text book .

Q3. Solve the textbook questions of chapter force and laws of motion & Work and Energy.

Q4. Write two CCT based case studies including 4 questions of each.

Topic- Force and laws of motion & Work and Energy.

Q5. Make a chart on any three of the following:

(a) Various cells from the human body

(b) Animal cell

(c) Plant cell

(d) Section of a stem

(e) Various types of simple tissues in plants (Parenchyma, Collenchyma and Sclerenchyma)

(f) Types of complex tissues in plants.

(g) Types of connective tissues in animals (types of blood cells, compact bone, hyaline cartilage, areolar tissue and adipose tissue)

(h) Types of muscle fibers in animals (striated muscle, smooth muscle, cardiac muscle)