

SAINIK SCHOOL NALANDA

Summer vacation homework

Subject- Physics

Sub. Teacher- Rakesh Bharti

Class-VII

1. Draw a labelled diagram and explain construction and working of Thermometer.
2. To show different modes of transfer of heat in solids, liquids and gases with the help of daily life example.

Class-VIII

1. Make a Project on atmospheric pressure and also explain it with the help of common example.
2. Make a flow chart of contact force and non contact force with its example.

Class-IX

1. Make a Project on Projectile motion and Newtons laws of motion with its common example in daily life.
2. Derive equation of motion by graphical method.

Class-X

1. Draw ray diagram of image formation in both types of mirror and lens and also write properties of image formed.
2. To find focal length of concave mirror and convex lens.

BIO

	SAINIK SCHOOL NALANDA
	CLASS VIII B (2023-24)
	SUMMER VACATION HOME WORK
1	What is meant by communicable diseases? Name any two communicable disease.
2	What are the various ways in which communicable diseases can occur and spread?
3	Name any five human diseases that caused by microorganisms.

4	Name the causative microorganism and mode of transmission for each of these diseases.
5	State the various ways of preventing the occurrence and spreading of communicable diseases.
6	What is a vaccine how does a vaccine work ?
7	Why are children given vaccination? What is meant by nitrogen fixation?
8	State two ways in which nitrogen gas of the atmosphere can be fixed in nature to get nitrogen compounds in the soil.
9	Nitrogen cycle in nature which natural phenomenon occurring in the sky is responsible for nitrogen fixation?
10	What is meant by kharif crops. Give two examples of kharif crops.
11	What is meant by Rabi crops. Give to example of Rabi crops.
12	What is the process of transplantation in agriculture?
13	Why is irrigation necessary.
14	Name the various sources of irrigation in our country.

SAINIK SCHOOL NALANDA
CLASS VII BIOLOGY (SESSION 2023-24)
SUMMER VACATION HOMEWORK
What is meant by the term rumination. Name any two ruminants.
Explain the process of digestion in cow.
Describe with the help of level diagram about the process of digestion in Amoeba.
What is oral rehydration solution. How can you make the oral rehydration solution?

With the help of an activity so that carbon dioxide is released during respiration.

With the help of an activity, demonstrate the mechanism of breathing in human.

What causes yawning? What are the various situations under which yawning occurs?

Draw a labelled diagram of human respiratory system.

Sub: Biology

Class VIII A

- 1. Make a Project on 'Some common diseases caused by Microorganisms.'**
- 2. Make a list of some friendly Microorganisms.**
- 3. What are various bacteria which are used in nitrogen fixation?**
- 4. Make a chart of common microorganisms and their use in various forms.**

Class IX A&B

- 1. Sketch the diagram of various shapes of different cells.**
- 2. On chart paper draw and label the diagram of a typical Plant cell.**
- 3. Illustrate the history of a typical Cell and its organelles.**

Class X B

- 1. Make a project on the topic 'Carbon dioxide is essential for photosynthesis'.**
- 2. Draw and label the diagram of ingestion in a single cell organism like Amoeba.**
- 3. Make a flow chart of biochemistry of digestion occurring at the various parts of the alimentary canal.**
- 4. Draw and label diagram of the cross section of a typical leaf showing the site for photosynthesis.**
- 5. Draw and label diagram of the human digestive system.**

Class XI

- 1. Make a list of various tools of systematics.**
- 2. How will you name a plant or animal as per recommendations of ICBN and ICZN.**
- 3. Make a chart of various algae classified as per common parameters.**
- 4. Make a flowchart of classification of organisms based on various rubrics.**
- 5. Make a flowchart of classification of Monera and Protista.**
- 6. Draw and label the diagram of Coelomatic, Acoelomatic and Pseudocoelomatic features.**

Class XII

- 1. Complete question answer of the chapter Reproduction in flowering plants.**
- 2. Draw and label the important diagrams of the chapter Reproduction in human beings.**
- 3. Draw and labelled diagrams of anatropous section of an ovule.**
- 4. Draw and label the flowchart of Spermatogenesis and Oogenesis occurring in human beings.**
- 5. Draw and label the diagram of Micro sporogenesis in flowering plants.**
- 6. Draw and label the diagram of an embryo sac showing double fertilization.**
- 7. Complete question answer of the chapter Reproduction in human beings.**
- 8. Draw and label the diagram of Menstrual cycle of human female. Show hormonal influence on Menstrual cycle.**