

WINTER HOLIDAY ASSIGNMENT- 2018-19

Class VI – Science

1. List some do's and don'ts that should be followed by people to conserve water.
2. Design a poster in public interest to show ways of water/forest conservation.
3. Name the major nutrients in our food.
4. Make a colourful poster for any one of the given topic:
 - (a) Different separation technique.
 - (b) Habitat and adaptation of few organisms

Class VII – Science

1. Find out about different blood groups and their importance.
2. When a person suffers from chest pain the doctor immediately takes an ECG. Visit a doctor and get information about ECG. You may even look up an encyclopaedia or the internet.

OR

Measure the breathing rate of the members of your family and some of your friends. Investigate:

- (a) If the breathing rate of children is different from that of adults.
- (b) If the breathing rate of females is different from that of males. Find the reasons if any.

OR

Prepare a model of lungs and stethoscope.

3. Collect information about time- measuring devices that were used in the ancient times in different parts of the world. Prepare a brief write up on each one of them. The write up may include the name of the device, the place of its origin, the period when it was used, the unit in which the time was measured by it and a drawing or photograph of device if available.

OR

Make a model of sand clock which can measure a time interval of 2 minutes.

Refer page no: 159

Class VIII - Science

1. Prepare a case study report, on the following topics:

- Taj Mahal
- Cleaning river Ganga

Key areas to focus:

- Air pollution/ water pollution
- Causes and effects

- Preventive measures to stop pollution
 - Action taken by government
2. Make a model of plant cell or animal cell or draw labelled diagram of plant cell or animal cell in A3 paper.
3. Draw a mind map in A4 paper
- Star and solar system
 - Cell – Structure and Functions
 - Reproduction in Animals
4. Read any one scientific fiction book and submit book review. Following are few examples.
- I, Robot – Issac Asimov
 - Journey to the centre of the earth- Jules Verne

Class IX – Science

Physics:

1. Make a power point presentation on any one of the following topics
- Motion
 - Force and laws of motion
 - Gravitation

Share the ppt file to the following mail id: sainik.rukutty@gmail.com in the following format: **Name of topic_name of cadet_roll number_class IX.ppt**

2. Prepare mind map on the following topics in a A4 paper or A3 paper.
- Motion
 - Force and laws of motion
 - Gravitation

Biology:

1. Prepare a power point presentation on any one type of disease (Communicable, degenerative, non-communicable disease), how does it occur, what are its symptoms, causative organism and preventive measures.

OR

2. Prepare a power point presentation on any one different animal phyla or plant divisions of your choice.

Share the ppt file to the following mail id: madhavi.sainik@gmail.com in the following format: **Name of topic_name of cadet_roll number_class IX.ppt**

Chemistry:

1. Make a model for any one of the given topic:
 - (a) Water purification techniques.
 - (b) Separation of air components.
2. Make a colourful chart describing structure of atom.

Class X – Science

Biology:

1. Complete the worksheets given. Learn the question and answers. Write answers in A4 paper.

Chemistry:

1. Write the name of some (at least 10) chemical compounds that you use in your day to day life. Classify them as acid, base and salt.
2. Write a short note on valency.
3. Prepare a ppt on any one of the given topic:
 - (a) Types of chemical reaction.
 - (b) Base and salt.
4. Write 25 chemical equations from various sources like book/internets, etc.
 - (a) Write the name of each reactant and product.
 - (b) Balance each of the reactions.
 - (c) Identify the types of reaction.
 - (d) No two copies should be identical.

Physics:

1. Collect past 5 year question papers of class X CBSE board science and answer the questions asked frequently in the following topics:
 - Light – reflection and refraction
 - Electricity
 - Magnetic effects of electricity current

Note:

1. Write answers chapter wise.
2. Write in A4 sheets.