

CLASS 8

SCIENCE SYLLABUS

CLASS 8

I TERM

PHYSICS

1. Force and Pressure
2. Friction
3. Sound

CHEMISTRY

1. Synthetic Fibres and Plastics
2. Metals and Non-Metals
3. Valency Chart and Chemical Formula writing
4. Chemical Equations

BIOLOGY

1. Crop production and Management
2. Micro organisms: Friend and Foe
3. Conservation of plants and Chemicals

II TERM

PHYSICS

1. Chemical Effects Of Electric Current
2. Some Natural Phenomena
3. Light
4. Sound(Repeated from I TERM)

CHEMISTRY

1. Coal and Petroleum
2. Combustion and Flame
3. Valency Chart and Chemical Formula writing
4. Metals and Non-Metals(Repeated from I TERM)

BIOLOGY

1. Cell Structure and Function
2. Reproduction in Animals
3. Reaching the age of adolescence
4. Micro organism: Friend and Foe(Repeated from I TERM)

BIOLOGY HOLIDAY HOMEWORK

- Q1. What is organic farming? What are its advantages?
- Q2. The great success of Green Revolution in India can be attributed to the efforts of Prof. M.S Swaminathan. How will you justify this statement?
- Q3. Explain the different methods of farming like mixed farming, crop. Rotation intercropping etc.
- Q4. What are the advantages of ploughing?
- Q5. What are the advantages of sowing seeds with a seed drill?
- Q6. Name three main types of chemical fertilisers. Give two examples of each.
- Q7. What do you understand by 'Water Logging? How does water logging damage the crops?
- Q8. What are high yielding varieties? (HYV) How are they obtained?
- Q9. Explain in detail the various types of animals that provide food for human consumption.
- Q10. What a transplantation? What are the advantages of transplantation?
- Q11. Find out about the various kinds of crops being grown in India. Make a list of the crops and classify them into food and cash crops and Rabi and Kharif crops.

CLASS 8

PHYSICS HOLIDAY HOMEWORK

➤ **Read the clues and write proper terms.**

1. A noncontact force of attraction and repulsion
2. “Beast of burden” use this force
3. Engine of the car exerts this force
4. A contact force that opposes motion
5. A noncontact force exerted by the earth
6. The study of charged objects and their behavior
7. The thick layer of air around the earth
8. How does a parachute help a person land safely?
9. Why is a person’s weight on Jupiter three times more than that on the Earth?
10. Nikita is cutting fruits for her grandmother as she is ill. She finds it difficult to cut fruits. She sharpens the cutting edge of the knife and cuts the fruits easily.
 - a) How does sharpening the knife help in cutting the objects easily?
 - b) What can you learn from Nikita?
11. A gas filled balloon moves up. Is the upward force acting on it larger or smaller than the force of gravity?
12. Does the force of gravitation exist between the two astronauts in space?
13. Ramesh’s mother emptied a polypack of pulses into a container; some of the pulse grains get stuck to the polythene and did not fall in the container. Give reasons.
14. Name the instrument used to measure the atmospheric pressure.
15. Why does a ball thrown upwards fall vertically downwards when only an upward force was applied on it?

HOLIDAY HOMEWORK, YR 2018 - 19

CLASS VIII
CHEMISTRY

GENERAL INSTRUCTIONS:

- The assignment and project should be done in your Chemistry notebooks.
- The assignment should be submitted on 2nd July 2018.

SECTION A

Research Project on "BIOPLASTICS".

The project must include the following information about Bioplastics:

- What are Bioplastics?
- How they are made?
- What are their advantages and disadvantages?
- What are their uses?
- What is their method of disposal?

SECTION B

Answer the following questions:-

- 1 Melamine is used for making kitchenware. Why?
- 2 Find out the full forms of PVC and PET.
- 3 Give one word:-
 - a) A synthetic fibre which resembles silk.
 - b) The first fully synthetic fibre.
 - c) The repeating unit of polyester.
- 4 Electrical wires have a plastic covering. Why?
- 5 Why should we not wear synthetic clothes while working in the laboratory?
- 6 Write three advantages of synthetic fibres.
- 7 We feel extremely uncomfortable if we wear clothes made of synthetic fibres during summers. Why?
- 8 Fill in the Blanks:-
 - a) Cotton is a natural polymer, its polymeric unit is cellulose and its monomeric unit is _____.
 - b) Polythene which is used to make polythene bags is an example of a _____.
 - c) Synthetic fabrics soak _____ water than the natural fabrics and take _____ time to dry.
 - d) Plastics do not react with _____ and _____.
 - e) Plastics are generally _____ than metals.
 - f) _____ is a special plastic on which oil and water do not stick.
 - g) Iron rusts when it is exposed to _____ and _____.
 - h) We should always remember the 5R principle: _____, _____, _____, _____ and _____.
- 9 Terrycot is made by mixing two types of fibres. Can you find the names of these fibres?
- 10 Why is it not advisable to burn synthetic fibres and plastics?

- 11 A plastic bucket does not rust but an iron bucket does. Why?
 - 12 Do all plastics have the same type of arrangement of monomeric units? How are monomers arranged in plastics? Which arrangement is the strongest and why?
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