

Class 7 Science

Summer Vacation Homework

Chapter 1 - Nutrition in Plants
Chapter 3 - Heat and Temperature
Chapter 6 - Respiration in Plants and Animals

General Instructions

- Write all answers neatly in your science notebook.
 - Draw diagrams with pencil and label them properly.
 - Learn all definitions and keywords.
 - Complete the work in your own handwriting.
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Chapter 1: Nutrition in Plants

Answer the Following Questions:

- 1 What is nutrition? Why do living organisms need food?
- 2 Define autotrophs and heterotrophs with examples.
- 3 What is photosynthesis?
- 4 Write the raw materials required for photosynthesis.
- 5 Why are leaves called the food factories of plants?
- 6 What is chlorophyll? What is its function?
- 7 Explain the process of photosynthesis in short.
- 8 How do fungi obtain their food?
- 9 What are insectivorous plants? Give two examples.
- 10 Differentiate between parasites and saprotrophs.

Drawing Work:

- Photosynthesis process in a green plant
 - Pitcher plant
 - Cuscuta plant on host
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Chapter 3: Heat and Temperature

Answer the Following Questions:

- 1 Define heat and temperature.

- 2 Name the instrument used to measure temperature.
- 3 Write the normal temperature of the human body.
- 4 Define conduction, convection and radiation.
- 5 Why are woollen clothes used in winter?
- 6 Why are dark coloured clothes preferred in winter?
- 7 Explain sea breeze and land breeze.
- 8 Why are cooking utensils generally made of metals?

Drawing Work:

- Clinical thermometer
 - Laboratory thermometer
 - Sea breeze and land breeze
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Chapter 6: Respiration in Plants and Animals

Answer the Following Questions:

- 1 What is respiration?
- 2 Differentiate between breathing and respiration.
- 3 Name the organs involved in human respiration.
- 4 Define aerobic respiration.
- 5 What is anaerobic respiration?
- 6 Why do we breathe faster after exercise?
- 7 How do fish breathe in water?
- 8 How do plants respire?

Drawing Work:

- Human respiratory system
 - Fish gills
 - Stomata in leaves
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Extra Creative Work (Do Any One)

- Make a model of lungs using balloons.
- Prepare a chart on Importance of Plants.
- Write 5 ways to keep respiratory system healthy.
- Prepare a small thermometer model using cardboard.

Teacher's Note: Holiday homework should be completed neatly and submitted after summer vacation.