

CLASS 07th – SCIENCE

1. Nutrition in Plants

- Mode of nutrition in plants
- Photosynthesis — food making process in plants
- Other modes of nutrition in plants
- Saprotrophs
- How nutrients are replenished in the soil

2. Nutrition in Animals

- Different ways of taking food
- Digestion in humans
- Digestion in grass-eating animals
- Feeding and digestion in amoeba

3. Fabric to Fabric

- Wool
- Silk

4. Heat

- Hot and cold
- Measuring temperature
- Laboratory thermometer
- Transfer of heat
- Kinds of clothes we wear in summer and winter

5. Acids, Bases and Salts

- Acids and bases
- Natural indicators around us
- Neutralization
- Neutralization in everyday life

6. Physical and Chemical Changes

- Physical changes
- Chemical change
- Rusting of iron
- Crystallization

7. Weather, Climate and Adaptations of Animals to Climate

- Weather
- Climate
- Climate and adaptation

8. Winds, Storms and Cyclones

- Air exerts pressure
- High speed winds are accompanied by reduced air pressure
- Air expands on heating

- Wind currents are generated due to uneven heating on the earth
- Thunderstorms and cyclones
- destruction caused by cyclones
- Effective safety measures
- Advanced technology has helped

9. Soil

- Soil teeming with life
- Soil profile
- Soil types
- Properties of soil
- Moisture in soil
- Absorption of water by soil
- Soil and crops

10. Respiration in Organisms

- Why do we respire?
- Breathing
- How do we breathe?
- What do we breathe out ?
- Breathing in other animals
- Breathing under water
- Do plants also respire?

11. Transportation in Animals and Plants

- Circulatory system
- Excretion in animals
- Transport of substances in plants

12. Reproduction in Plants

- Modes of reproduction
- Sexual reproduction
- Fruits and seed formation
- Seed dispersal

13. Motion and Time

- Slow or fast
- Speed
- Measurement of time
- Measuring speed
- Distance-time graph

14. Electric Current and its Effects

- Symbols of electric components

- Heating effect of electric current
- Magnetic effect of electric current
- Electromagnet
- Electric bell

15. Light

- Light travels along a straight line
- Reflection of light
- Right or left!
- Playing with spherical mirrors
- Images formed by lenses
- Sunlight — white or colored?

16. Water: A Precious Resource

- How much water is available
- Forms of water
- Groundwater as an important source of water
- Depletion of water table
- Distribution of water
- Water management
- Effect of water scarcity on plants

17. Forests: Our Lifeline

- Visit to a forest

18. Wastewater Story

- Water, our lifeline
- What is sewage?
- Water freshens up — an eventful journey
- Waste water treatment plant (wwtp)
- Better housekeeping practices
- Sanitation and disease
- Alternative arrangement for sewage disposal
- Sanitation at public places