

SCIENCE SYLLABUS

Class – 7

7th Class Science Syllabus – An Overview

Syllabus for Class 7 Science is designed to provide a foundational understanding of various scientific principles. It is divided into three broad sections: Physics, Chemistry, and Biology. Here's a detailed breakdown of the topics and sub-topics covered in the Class 7 Science syllabus:

Here our chapters for ITSE Examination :-

Chapter 1. Motion and Time

Chapter 2. Electric Current and Its effects

Chapter 3. Acids , Bases and Salts

Chapter 4. Water

Chapter 5. Fibre to Fabric

Chapter 6. Nutrition in Animals

Chapter 7. Weather, Climate, and Adaptations of Animals to Climate

Chapter 8. Reproduction in Plants

Chapter 9. Transportation in Animals and Plants

Chapter 10. Respiration in Organisms

Chapter 11. Nutrition in Plants

Chapter 12. Soil

Chapter 13. Physical and Chemical Changes

Chapter 14. Heat

Chapter 15. Winds, Storms, and Cyclones

Chapter 16. Light

Chapter - 1 (Motion and Time)

Topics and Sub- Topics:

- Understanding Speed
- Measurement of Time
- Measuring Speed

Chapter - 2 (Electric Current and Its effects)

Topics and Sub-topics:

- Symbols of Electric Components.
- Heating Effect of Electric Current.
- Magnetic Effect of Electric Current.
- Electric Bell

Chapter - 3 (Acids , Bases and Salts)

Topics and Sub-topics:

- Acids and their Properties
- Bases and their Properties
- Neutralization Reaction
- Use of Indicators

Chapter – 4 (Water)

Topics and Sub-topics:

- Availability of Water.
- Importance of Water Conservation.
- Groundwater and Its Overuse.
- Water Cycle

Chapter - 5 (Fibre to Fabric)

Topics and Sub-topics:

- Animal Fibres: Wool and Silk.
- Processing of Wool
- Life Cycle of Silk Moth

Chapter - 6 (Nutrition in Animals)

Topics and Sub-topics:

- Different Modes of Feeding
- Human Digestive System
- Digestion in Grass-Eating Animals

Chapter – 7 (Weather, Climate, and Adaptations of Animals to Climate)

Topics and Sub-topics:

- Weather and Climate
- Climate and Adaptations in Animals
- Effects of Climate Change

Chapter - 8 (Reproduction in Plants)

Topics and Sub-topics:

- Modes of Reproduction in Plants
- Sexual and Asexual Reproduction
- Seed Dispersal

Chapter - 9(Transportation in Animals & Plants)

Topics and Sub-topics:

- Circulatory System in Humans
- Blood Vessels and Heart
- Excretory System in Humans
- Transport in Plants: Xylem and Phloem

Chapter - 10 (Respiration in Organisms)

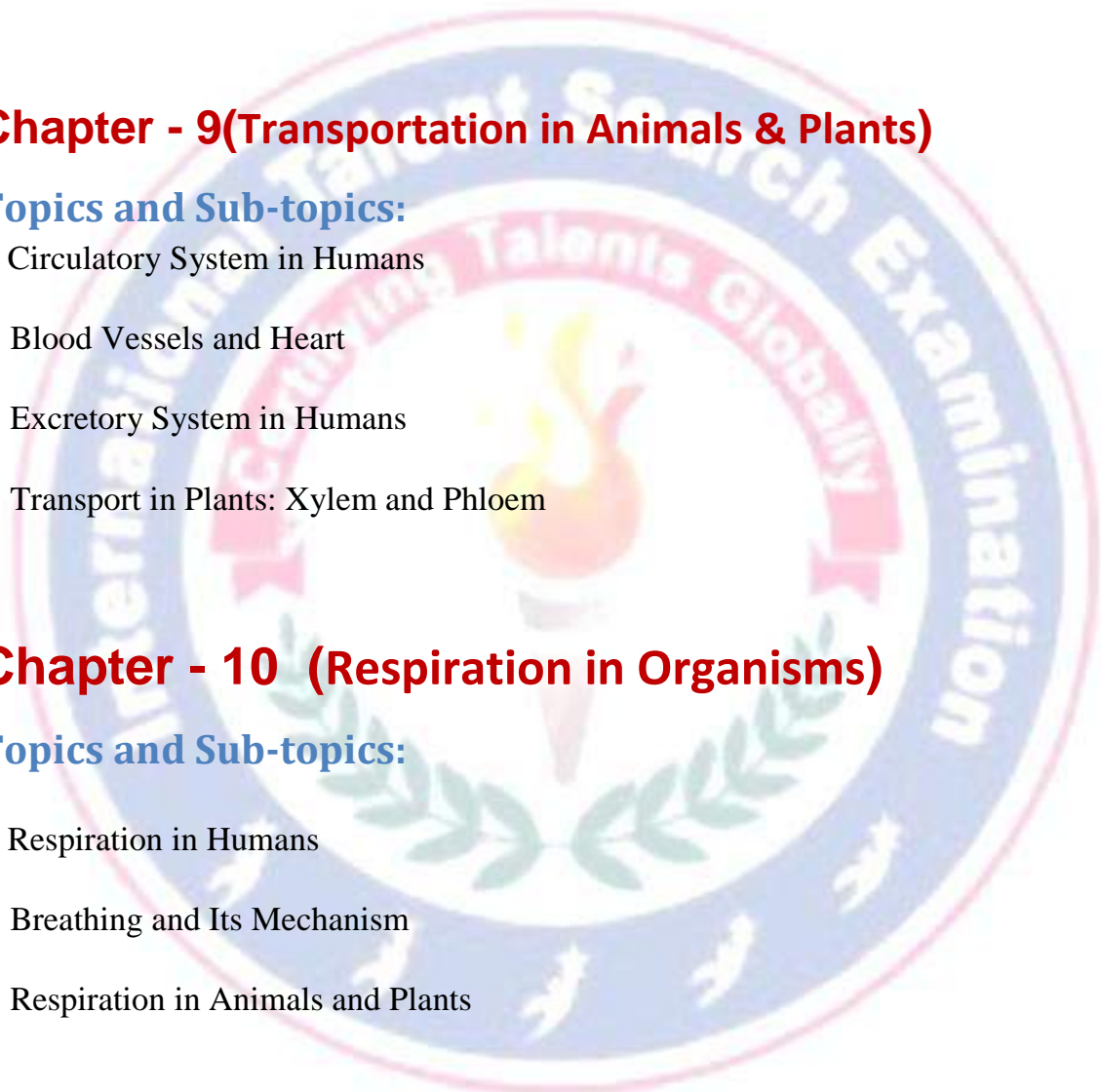
Topics and Sub-topics:

- Respiration in Humans
- Breathing and Its Mechanism
- Respiration in Animals and Plants

Chapter - 11 (Nutrition in Plants)

Topics and Sub-topics:

- Modes of Nutrition in Plants
- Photosynthesis



- Other Modes of Nutrition in Plants
- Saprotrophs and Parasites

Chapter - 12 (Soil)

Topics and Sub-topics:

- Formation of Soil
- Soil Profile and Horizons
- Soil Types and Properties
- Soil Erosion and Conservation

Chapter - 13 (Physical and Chemical Changes)

Topics and Sub-topics:

- Physical Changes
- Chemical Changes
- Rusting of Iron
- Crystallization

Chapter - 14 (Heat)

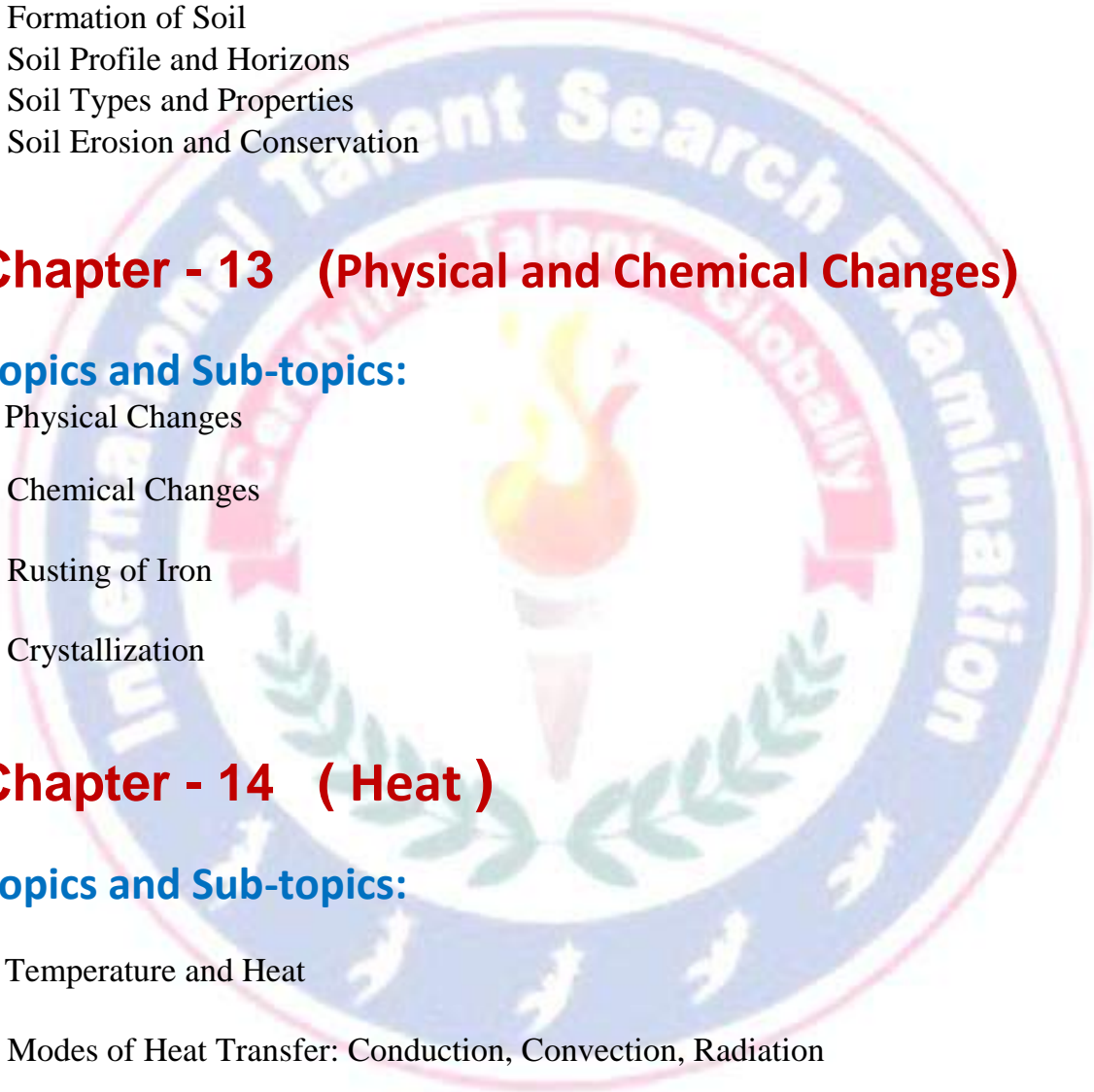
Topics and Sub-topics:

- Temperature and Heat
- Modes of Heat Transfer: Conduction, Convection, Radiation
- Sea Breeze and Land Breeze

Chapter – 15 (Winds, Storms, and Cyclones)

Topics and Sub-topics:

- Air Pressure and Wind



- Thunderstorms and Cyclones
- Safety Measures during Cyclones

Chapter – 16 (Light)

Topics and Sub-topics:

- Light Travels in a Straight Line
- Reflection of Light
- Plane Mirror and Lateral Inversion
- Regular and Diffused Reflection
- Reflected Light and Image Formation
- Dispersion of Light

