

# SYLLABUS 2022-23

**SUBJECT - SCIENCE**

**CLASS - IX**

## TERM I

MONTH	TEXT BOOK - TOPIC	REFERENCE LIBRARY TOPIC	ACTIVITY PROJECT/READING/ASL
APRIL	CH-1 (MATTER IN OUR SURROUNDING)	CH-1 (MATTER IN OUR SURROUNDING)	1.DETERMINATION OF THE MELTING POINT OF ICE AND THE BOILING POINT OF WATER.
MAY	CH-5 (FUNDAMENTAL UNIT OF LIFE)	CH-5 (FUNDAMENTAL UNIT OF LIFE)	2.PREPARATION OF STAINED TEMPORARY MOUNTS OF (a) ONION PEEL, (b) HUMAN CHEEK CELL AND TO RECORD OBSERVATIONS AND DRAW THEIR LABELLED DIAGRAMS.
JULY	CH -9 (FORCE AND LAWS OF MOTION) CH- 2 (IS MATTER AROUND US PURE)	CH -9 (FORCE AND LAWS OF MOTION)	3. PREPARATION OF : (a) A TRUE SOLUTION OF COMMON SALT, SUGAR AND ALUM. (b) A SUSPENSION OF SOIL, CHALK POWDER AND FINE SAND IN WATER. (c) A COLLOID SOLUTION OF STARCH IN WATER AND EGG ALBUMIN/MILK IN WATER AND DISTINGUISH BETWEEN THESE ON THE BASIS OF TRANSPARENCY, FILTRATION CRITERION, STABILITY 4. PREPARATION OF A MIXTURE, A COMPOUND USING IRON FILINGS AND SULPHUR POWDER AND DISTINGUISHING BETWEEN THESE ON THE BASIS OF: (a) APPEARANCE, BEHAVIOUR TOWARDS A MAGNET, BEHAVIOUR TOWARDS CARBON DISULPHIDE AS A SOLVENT, EFFECT OF HEAT. 5. PERFORM THE FOLLOWING REACTIONS AND CLASSIFY THEM AS PHYSICAL AND CHEMICAL CHANGES 1. IRON WITH COPPER SULPHATE IN WATER 2. BURNING OF MAGNESIUM RIBBON IN AIR 3. ZINC WITH DILUTE SULPHURIC ACID 4. HEATING OF COPPER SULPHATE CRYSTALS 5. SODIUM SULPHATE AND BARIUM CHLORIDE.
AUGUST	CH- 6 (TISSUE) CH-10 (GRAVITATION)	CH- 6 (TISSUE)	6. IDENTIFICATION OF PARENCHYMA, COLLENCYMA AND SCLERENCHYMA IN PLANTS, STRIPED, SMOOTH AND CARDIAC MUSCLE FIBERS AND NERVE CELLS IN ANIMALS FROM PREPARED SLIDES. DRAW THEIR LABELLED DIAGRAMS. 7. DETERMINATION OF DENSITY OF SOLID 8. ESTABLISHING THE RELATION BETWEEN THE LOSS IN WEIGHT OF A SOLID WHEN FULLY IMMERSSED IN TAP WATER, SALTY WATER WITH WEIGHT OF WATER DISPLACED BY IT BY TAKING AT LEAST TWO DIFFERENT SOLIDS
SEPTEMBER	CH-3 (ATOMS AND MOLECULES)	CH-3 (ATOMS AND MOLECULES)	9. VERIFICATION OF THE LAW OF CONSERVATION OF MASS IN A CHEMICAL REACTION.

**TERM II**

<b>OCTOBER</b>	<b>CH-11 (WORK , ENERGY AND POWER) CH-4 (STRUCTURE OF ATOM)</b>	<b>CH-11 (WORK , ENERGY AND POWER)</b>	
<b>NOVEMBER</b>	<b>CH-12 (SOUND) CH-15 (FOOD PRODUCTION)</b>	<b>CH-12 (SOUND)</b>	<b>10. VERIFICATION OF THE LAWS OF REFLECTION OF SOUND 11. DETERMINATION OF THE SPEED OF A PULSE PROPOGATED THROUGH A STRETCHED STRING/SLINKY</b>
<b>DECEMBER</b>	<b>POST MID (40)</b>		
<b>JANUARY</b>	<b>REVISION OF ANNUAL TERM</b>		
<b>FEBRUARY</b>	<b>ANNUAL (OFFLINE)(80)</b>		