

## SYLLABUS FOR THE SESSION 2023-24

**CLASS - IX**

**SUBJECT - Science**

MONTH	TEXT BOOK -	DIGITAL RESOURCES	SUBJECT ENRICHMENT ACTIVITIES
April	amatter in our surrounding Motion	Explanation from E- Library	1.DETERMINATION OF THE MELTING POINT OF ICE AND THE BOILING POINT OF WATER.
May	The fundamental unit of life	Animated videos	2.PREPARATION OF STAINED TEMPORARY MOUNTS OF (a) ONION PEEL, (b) HUMAN CHEEK CELL AND TO RECORD OBSERVATIONS AND DRAW THEIR LABELLED DIAGRMS.
July	Force and laws of motion Is matter around us pure	Mind map and online quiz from back exercise	3. PREPRATION 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. PREPRATION OF A MIXTURE, A COMPOUND USING IRON FILLINGS 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	Tissue Gravitation	Demonstration by video	6. IDENTIFICATION OF PARENCHYMA, COLLENCHYMA 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	Atoms and molecules	Demonstration by video	9. VERIFICATION OF THE LAW OF CONSERVATION OF MASS IN A CHEMICAL REACTION.
October	Work Energy and Power Structure of the atom	Flow chart from E- library	
November	Sound Improvement in food resources	Animated videos	10. VERIFICATION OF THE LAWS OF REFLECTION OF SOUND 11. DETERMINATION OF THE SPEED OF A PULSE PROPAGATED THROUGH A STRETCHED STRING/SLINKY
December	Post Mid	Mind map and explanation from E- library	
January	Revision		