

**MORARJI DESAI RESIDENTIAL SCHOOL (SC – 345), KANDAGALLU.
KOTTUR (T) VIJAYANAGARA (D)**

PROGRAMME OF WORK 2023-24

SUBJECT: SCIENCE

CLASS: 09

MONTH AND WORKING DAYS	NAME OF THE UNIT / LEARNING COMPETANCIES	PERIODS ALLOTTED	PERIODS ENGAGED	COMPLETED OR NOT COMPLETED	REASON IF NOT COMPLETED	HOMEWORK		TEACHER'S SIGN	PRINCIPAL SIGN
						GIVEN	CORRECTED		
MAY 03 DAYS	➡ PLANNING AND PREPARATION FOR THE ACADEMIC YEAR 2023-24	03							
JUNE 25 DAYS	➡ Bridge course ➡ Pre-Test ➡ Post – Test ➡ Preparation of Annual Plan	15							
	CHAPTER 01: MATTER IN OUR SURROUNDINGS ➡ Physical nature of matter ➡ Characteristics of particles of matter ➡ States of matter ➡ Change of state of matter ➡ Freezing, Evaporation, Condensation, Sublimation	10							
JULY 25 DAYS	CHAPTER 05: THE FUNDAMENTAL UNIT OF LIFE ➡ Cell is the basic unit of life ➡ Structure of cell ➡ Organelles of cell ➡ Q&A Session and Activities	06							

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	CHAPTER 06: TISSUES	08							
	➡ Structure and functions of animal and plant tissues ➡ Types of Tissue (four types in animals; meristematic and permanent tissues in plants)								
	CHAPTER 08 MOTION	08							
	➡ Distance and displacement ➡ Velocity ➡ Uniform and non-uniform motion along a straight line ➡ Acceleration								
	FORMATIVE ASSESMENT – 02	03							
AUGUST 26 DAYS	CHAPTER 08 MOTION [CONTINUED]	05							
	➡ Distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion ➡ Equations of motion by graphical method ➡ Elementary idea of uniform circular motion								
	CHAPTER 02: IS MATTER AROUND US PURE	11							
	➡ Elements ➡ Compounds ➡ Mixtures ➡ Heterogenous and homogenous mixtures ➡ Colloids and suspensions								

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SEPTEMBER 24 DAYS	CHAPTER 09: FORCE AND NEWTON LAWS OF MOTION	10							
	⌚ Force and motion								
	⌚ Newton's laws of motion								
	⌚ Inertia of a body, inertia and mass, momentum, force and acceleration								
	⌚ Elementary idea of conservation of momentum								
	⌚ Action and reaction forces								
	CHAPTER 10: GRAVITATION	10							
	⌚ Gravitation								
	⌚ Universal law of gravitation								
	⌚ Force of gravitation of the earth (gravity)								
	⌚ Acceleration due to gravity								
	⌚ Mass and weight	08							
	⌚ Free fall								
	CHAPTER 15: IMPROVEMENT IN FOOD RESOURCES								
	⌚ Introduction								
	⌚ Animals – Nervous System								
	⌚ Coordination in plants	06							
	⌚ Hormones in animals								
	⌚ Q&A Session and Activities								
	FORMATIVE ASSESMENT – 02 AND REVISION								

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OCTOBER [02-10-2023 to 07-10-2023]	SUMMATIVE ASSESMENT – 01	06							
OCTOBER [25-10-2023 to 31-10-2023]	⌚ Revision classes	11							
NOVEMBER 23 DAYS	CHAPTER 14: NATURAL RESOURCES	08							
	⌚ Physical resources: Air, Water, Soil. Air for respiration, for combustion, for moderating temperatures;								
	⌚ Movements of air and its role in bringing rains across India.								
	⌚ Air, water, and soil pollution								
	⌚ Holes in the ozone layer and the probable damages.								
	⌚ Biogeochemical cycles in nature: Water, Oxygen, Carbon, and Nitrogen.								
	CHAPTER 03: ATOMS AND MOLECULES	09							
	⌚ Particle nature and their basic units: Atoms and molecules,								
	⌚ Law of constant proportions, Atomic and molecular masses.								
	⌚ Mole concept: Relationship of mole to mass of the particles and numbers.								
	CHAPTER 11: WORK AND ENERGY	06							
	⌚ Work								

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	<ul style="list-style-type: none">➤ Energy and its types➤ Rate of doing work								
DECEMBER 25 DAYS	CHAPTER 04: STRUCTURE OF ATOM	10							
	<ul style="list-style-type: none">➤ Charged particles in matter➤ The structure of an atom➤ Distribution of electrons in an atom➤ Valency➤ Atomic number and mass number➤ Isotopes								
	CHAPTER 13: WHY DO WE FALL ILL?								
	<ul style="list-style-type: none">➤ Health and its failure➤ Disease and its causes➤ Infectious diseases								
	CHAPTER 12: SOUND								
	<ul style="list-style-type: none">➤ Production of sound➤ Propagation of sound								
JANUARY 24 DAYS	CHAPTER 12: SOUND [CONTINUED]	11							
	<ul style="list-style-type: none">➤ Reflection of sound➤ Application of ultrasound➤ Structure of human ear								
	CHAPTER 07: DIVERSITY IN LIVING ORGANISMS								
	<ul style="list-style-type: none">➤ Basis of classification➤ Classification and evolution➤ The hierarchy of classification – Groups	10							
	FORMATIVE ASSESMENT – 04								

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FEBRUARY 23 DAYS	CHAPTER 07: DIVERSITY IN LIVING ORGANISMS	06							
	➡ Plantae								
	➡ Animalia								
	➡ Nomenclature								
	➡ Revision of the syllabus	17							
MARCH 26 DAYS	➡ Revision	26							
	➡ Summative Assessment – 02								
APRIL 09 DAYS	➡ Evaluation and Announcement of Results	09							

Signature of Science Teacher

Signature of Principal