

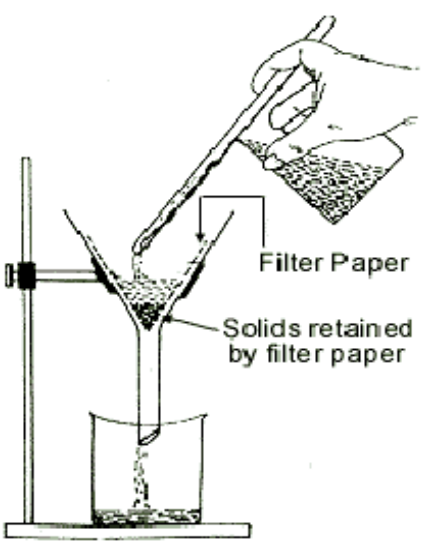
ARMY PUBLIC SCHOOL RK PURAM

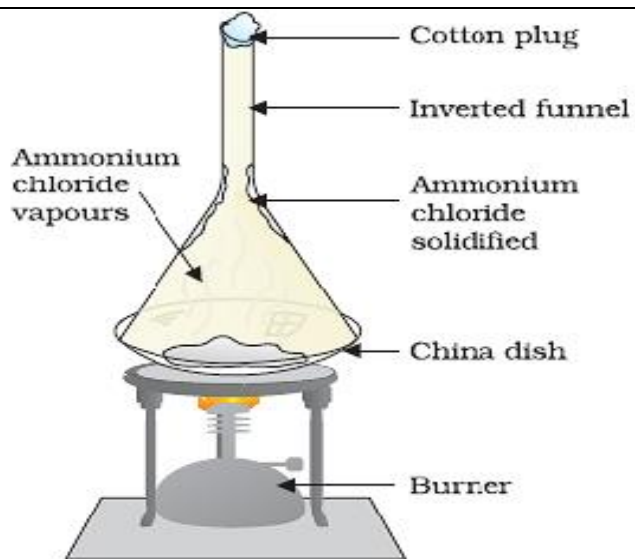
SUBJECT- SCIENCE

CLASS- 9

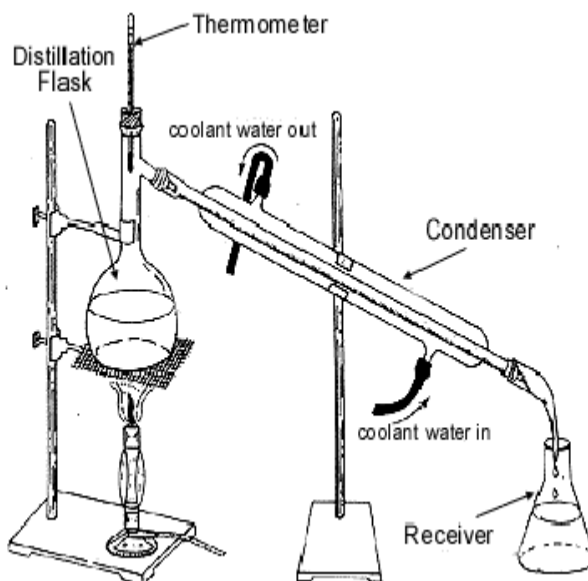
LESSON- MATTER IN OUR SURROUNDINGS

LESSON-1 and2.

TOPIC	ACTIVITIES	VALUES/ TRAITS
1.MATTER IN OUR SURROUNDINGS.	 <p>To prepare a true solution, colloid and suspension and study their properties</p> <p>To prepare a solution of potassium permanganate and dilute it to understand the extremely small size of the particles.</p>	<p>Logical thinking, Problem solving, Curiosity.</p> <p>Analytical skills, observation skills. sense of judgment.</p>
2 IS MATTER AROUND US PURE?	<p>To collect samples of elements, mixtures and Suspensions and classify them as homogenous or heterogenous ones.</p>	<p>Environment awareness. Inclusivity.</p>
	<p>To separate cream from milk by the process of Centrifugation.</p> <p>To visit a nearby dairy industry to study large Scale centrifugation.</p> <p>To study sublimation process using Ammonium Chloride salt and the following apparatus.</p>	<p>Effective communication, curiosity, interest</p> <p>Logical thinking, Problem solving, Curiosity.</p> <p>Effective communication,</p>

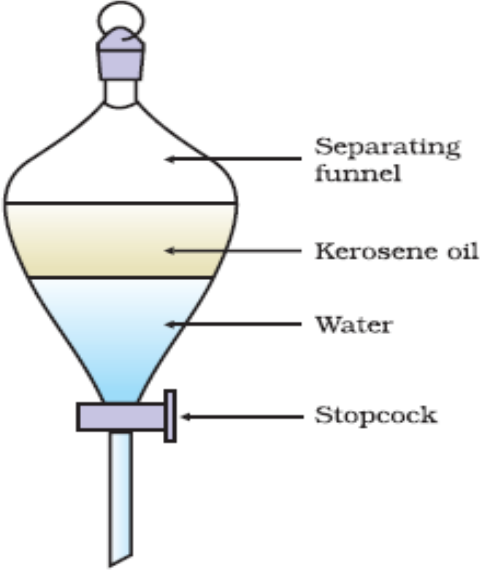


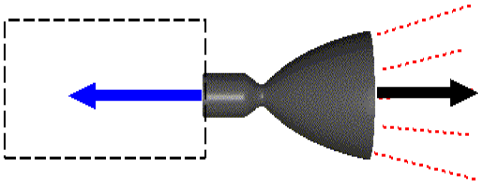
To study the process of distillation by observing the following apparatus.



curiosity, interest.

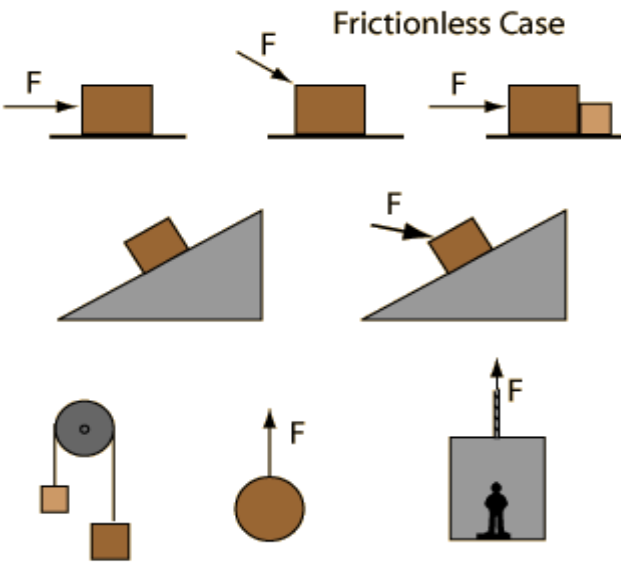
Observational skills
Environmental awareness.

	 <p>To separate a mixture of castor oil and water Using separating funnel. The method is Filtration.</p>	<p>Logical thinking, Problem solving, Curiosity. Effective communication, curiosity, interest.</p>
<p>TOPIC</p>	<p>ACTIVITIES</p>	<p>VALUES/ TRAITS</p>
<p>CELL the FUNDAMENTAL UNIT OF LIFE.</p> <p>TISSUES</p>	<p>TO OBSERVE VARIOUS SINGLE CELLED AND MICROSCOPIC ORGANISMS UNDER MICROSCOPE.</p> <p>OBSERVE VARIOUS ANIMAL AND PLANT TISSUES.</p>	<p>Logical thinking, Problem solving, Curiosity.</p> <p>Analytical skills, observation skills. sense of judgment.</p>
<p>IMPROVEMENT IN FOOD RESOURCS</p>	<p>To vist a poultry farm, apicultural unit and a cattle farm</p>	<p>Environment sensitivity concerned for animal life</p>
<p>Gravitation</p>	<p>To study the force of attraction between two objects</p>	<p>Observational Skills</p>

TOPIC	ACTIVITIES	VALUES/ TRAITS
<p data-bbox="185 369 305 401">MOTION</p> <p data-bbox="185 835 425 905">FORCE and LAWS of MOTION.</p>	<p data-bbox="448 516 1075 611">To study uniform,non uniform, Accelerated and circular motions.</p> <p data-bbox="448 751 967 825">TO study the third law of motion.</p>	<p data-bbox="1114 369 1336 478">Logical thinking, Problem solving, Curiosity.</p> <p data-bbox="1114 800 1430 905">Analytical skills, observation skills. sense of judgment.</p>
<p data-bbox="185 993 425 1056">FORCE AND LAWS OF MOTION.</p>	<div data-bbox="467 1024 1092 1507" style="text-align: center;"> <h3 style="color: red;">Rocket Engine Thrust</h3> <p>Exhaust Flow Pushed Backward</p>  <p>Engine Pushed Forward</p> <p style="color: red;"><i>For every action, there is an equal and opposite re-action.</i></p> </div>	

FORCE AND LAWS OF MOTION.

Frictionless Case

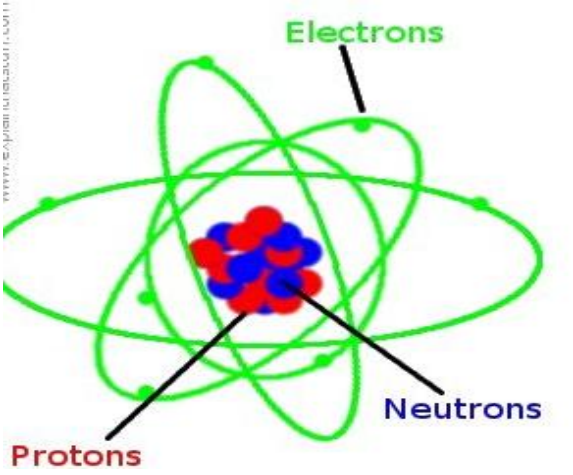


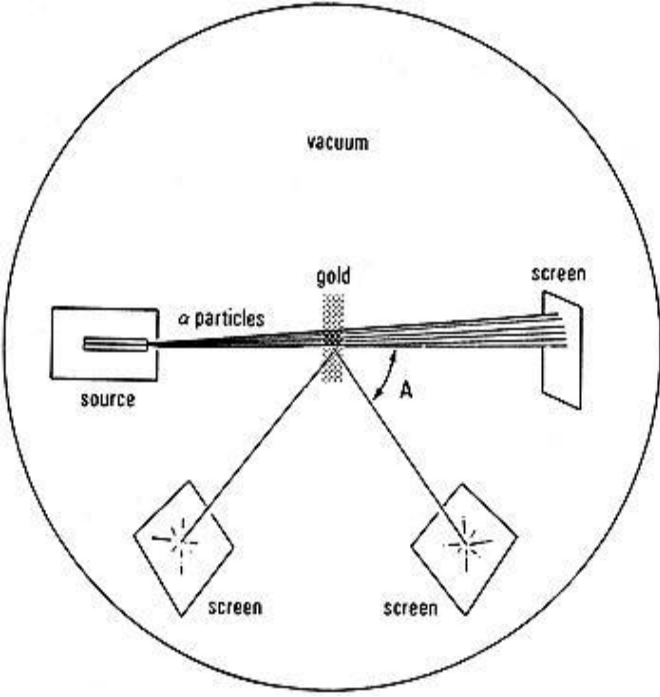
TO STUDY BALANCED AND UNBALANCED FORCES.

Effective communication, curiosity, interest

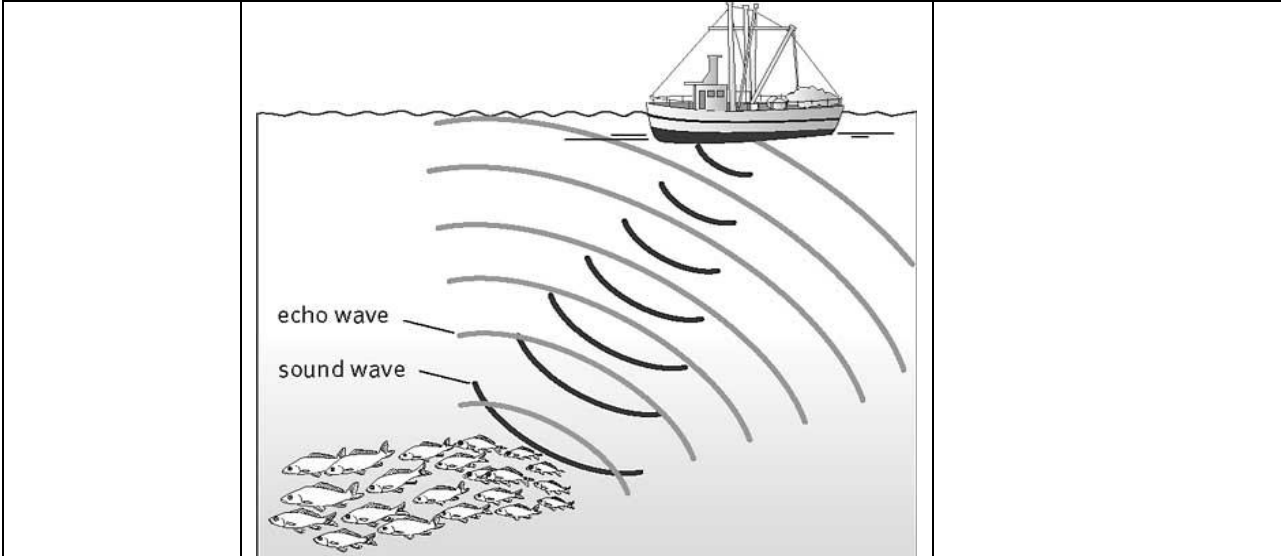
Logical thinking, Problem solving, Curiosity. Effective communication, curiosity, interest.

TERM-2

TOPIC	ACTIVITIES	VALUES/ TRAITS
STRUCTURE OF THE ATOM.	 <p style="text-align: center;">TO STUDY THE STRUCTURE OF ATOM AND</p>	Logical thinking, Problem solving, Curiosity. Analytical skills, observation skills. sense of judgment.

<p>Atoms and molecules</p>	<p>UNDERSTAND THE CONCEPTS OF ATOMIC Number</p>  <p>To Discuss Rutherford's Alpha Particles Scattering experiment</p>	
<p>Diversity in leaving organisms</p>	<p>To classify plants around you into mono cots and di-cots, Give the scientific names of 5 animals and plants</p>	<p>Inclusivity</p>
<p>Why do we fall ill?</p>	<p>Vist a Primary health center and find the vaccination given free of cost by the government</p>	<p>Effective communication skills</p>

<p>WORK POWER AND ENERGY.</p>	<p>To STUDY THE KINETIC ENERGY CONVERTED INTO OTHER FORMS OF ENERGY AND VICE VERSA.</p>	<p>Environment sensitivity.</p>
<p>SOUND.</p>	<p>TO STUDY HOW SONAR FUNCTIONS. TO MAKE A TOY TELEPHONE AND STUDY THE MANNER IN WHICH SOUND PROPAGATES.</p>	<p>Effective communication skills Observation skills.</p>



The End