

C.C.E CALENDAR FOR THE YEAR 2012- 13
CLASS: VII
SUBJECT: SCIENCE
I TERM

	TOPICS TO BE COVERED	MODE OF ASSESSMENT	COMPETENCIES/ SKILLS/CONCEPTS TO BE ASSESSED	
	*Nutrition in plants	1.Observation of stomata in plants 2.Observation of specimens, charts/video images from websites 3. Activity-bread mould 4.Seminar – on how nutrients can be replenished in the soil	1.Inquisitiveness,observational skill 2.Observational skill, drawing skill 3.Application of knowledge, observation, recording, analyzing, drawing conclusion 4.Communication skills ,leadership quality, scientific achievement	

	*Acids, bases and salts	<ol style="list-style-type: none"> 1.MCQ(practical based) 2.Activity –individual 3 Group discussions on neutralization in everyday life. 4.Find out the nature of the soil using pH paper 	<ol style="list-style-type: none"> 1. Interpretation, testing practical skills. 2. Confident, observation, drawing conclusions. 3. Active participation, communication skill, listening skill, critical thinking. 4.Observation drawing conclusions 	
	<p>*Physical and chemical changes</p> <p>*Weather climate and adaptation of animals to Climate</p>	<ol style="list-style-type: none"> 1. Individual activity-lime water turns milky 2.Group activity 3.Collect the information about the types of fuels used for cooking <ol style="list-style-type: none"> 1. Collection of weather reports from news paper. 2. Graph showing variation of maximum temperature during 12 August to 20th August. 3. Flow chart on adaptation of penguin/polar bear. 4. Collect information about migratory birds/tropical rainforests. <ol style="list-style-type: none"> 1. Model of anemometer –group 	<ol style="list-style-type: none"> 1Observation, recording, inferring, drawing conclusions. 2. Team spirit, peer related behaviour, social life skill. 3.Collaborative skill <ol style="list-style-type: none"> 1.Data collection, interpretation 2.critical thinking 3. Spatial skill, learner’s abilities and thoughts. 4. Data collection, interpretation. <ol style="list-style-type: none"> 1. Motor skills, practical application skills, 	

	<p>*Wind, storms and cyclones</p> <p>REVISION</p> <p>*Soil</p> <p>*Respiration in organisms</p>	<p>activity</p> <p>2. Collect articles and photographs from news papers and magazines about storms and cyclones.</p> <p>3.Quiz</p> <p style="text-align: center;">II TERM (OCT TO MAR)</p> <p>1. Visit to a construction site and observe the soil profile and rooting pattern of plants.</p> <p>2.To find the moisture content of a soil sample.</p> <p>3.crossword puzzle</p> <p>1. Individual activity on changes in breathing</p> <p>2. Effect of breathing on chest size.</p> <p>3.Model to show mechanism of breathing</p> <p>4.MCQ</p> <p>5. Crossword puzzle.</p> <p>6.Observation of fishes in the aquarium</p> <p>7. Visit a local doctor. Learn about</p>	<p>opportunity to work in group.</p> <p>2. Data collection, analyse, organizes and interprets and draws generalization.</p> <p>3. Conceptualisation, application, mental alertness, speed.</p> <p>1. Observational skill, active participation to provide an opportunity to relate and synthesize within and outside classroom learning.</p> <p>2. Inquisitiveness, observation, recording, drawing conclusions.</p> <p>3.Mental alertness, recall</p> <p>1. &2. Observing, recording, inferring.</p> <p>3. Motor skills, logical, coordination, practical application skill.</p> <p>4. Application & interpretation.</p> <p>5. Mental alertness, recall, application.</p> <p>6. Observational skills, interpretation.</p> <p>7. Information gathering, analyzing, correlates to real life.</p>	<p>FA I 10</p> <p>FA II 10</p> <p>SA I 20</p> <p>TOTAL 40</p>
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	<p>*Transportation in animals and plants</p> <p>*Reproduction in plants</p> <p>*Motion and time</p>	<p>harmful effects of smoking.</p> <p>1. Model of stethoscope</p> <p>2 Group Activity on osmosis</p> <p>3. Measurement of pulse rate.</p> <p>1. MCQ</p> <p>2. Collect vegetative parts of the plant-rose, ginger, potato, bryophyllum and grow them.</p> <p>3. Observation of permanent slides.</p> <p>4. observation of pollen, ovary with dissection microscope.</p> <p>5. Dispersal of seeds. Collection & preparation of herbarium</p> <p>1. Oral question</p> <p>2. Plotting a graph on distance-time</p> <p>3. Group activity –to calculate the time period of a simple pendulum.</p>	<p>1. Motor skills, coordination, logical, practical application.</p> <p>2. Develop positive attitude towards group work, Share & learn from each other</p> <p>3. Active participation, learning and assessing.</p> <p>1. Interpretation, testing practical skills.</p> <p>2. Organising, deductive reasoning, analyzing. Opportunity to search for information construct their own ideas and articulate the same ideas through spoken, written or visual expressions.</p> <p>3. Observational skill, drawing and recording skill.</p> <p>4. Observational skill, drawing skill.</p> <p>5. Observation & appreciation of nature, opportunity to explore, work with one's hand.</p> <p>1. Recall, recollect and understand.</p> <p>2. Critical thinking.</p> <p>3. Provide an opportunity to work in groups,</p>	
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	<p>*Electric current and its effects</p>	<p>4. Model of a sand clock.</p> <p>1. Activity to check how steady our hand is. 2.To make a simple electric circuit 3. Use of CFL's in today's scenario-seminar. 4.Inspect the meter box fitted with fuses/MCB 5.Working model of a railway signal 6. Individual –working model of electromagnet.</p>	<p>team spirit, share and learn from each other.</p> <p>4. Motor skill, practical application skill.</p> <p>1. Inquisitiveness, observation, analyzing, & inferring. 2. Motor skills, practical application skill. 3. Good communication skills, leadership quality, innovative, scientific achievement. 4. Observational skill, understanding, logical thinking. 5. Motor skills, creativity.</p> <p>6. To work with one's hand, observe and draw conclusion.</p>	
	<p>*Light</p>	<p>1. Properties of light-individual activity 2. Reflection of light from a mirror using torch 3. Observe the letters of English alphabets using a plane mirror 4. Model of Newton's colour disc. 5. Visit to a laughing gallery in some science centre to see distorted and funny image 6. Observation of size, position and nature of image formation by</p>	<p>1. Understanding, logical thinking.</p> <p>2. Explore, observe, interpret data, draw generalizations. 3. Observational skill, reasoning, analyzing, co relating to real life 4. Practical application skill, motor skill. 5. Collaborative skills.</p> <p>6. Critical thinking.</p>	

		convex lens	
	*Water	<ol style="list-style-type: none"> 1. Collection of clippings from news papers and magazines on news items, articles, and pictures related to water shortage. Preparation of a scrap book. 2. Slogan writing/posters. 3. Crossword puzzle 4. Rain water harvesting - Survey project- 5. Campaign on conservation of water. 	<ol style="list-style-type: none"> 1. Documentation of learners experience, actual recall of events, Provides insight into emotional, social & psychological aspects. Exhibits creativity, originality. 2. Understands events taking place helps to indicate different ways of thinking. Creates awareness. 3. Recall, application, mental alertness. 4. Critical thinking, analyzing, interpreting, decision making, collaborative skills. 5. Holistic approach, opportunity for exploring child's abilities.
	*Forests –our life line	<ol style="list-style-type: none"> 1. Debate on conservation of plants. 2. Chart on interrelationship of plants, soil and decomposers in a forest-group activity. 3. Make a list of forest products. 4. Scrap book-paste the various shapes of trees. 	<ol style="list-style-type: none"> 1. Fluent presentation with appropriate gestures. 2. Motor skills, Provides insight into social, emotional & psychological aspects. 3. Collection of data and recording. 4. Documentation of learners experience
	*Waste water story	<ol style="list-style-type: none"> 1. Cross word puzzle 2. Symposium on ecological awareness 	<ol style="list-style-type: none"> 1. Recall, application, mental alertness. 2. Accuracy, coordination, presentation, critical thinking, collaborative skill. 3. Inquisitiveness, observation, recording,

	Revision	3. Group activity on waste water treatment plant. 4. Collect information about sewage disposal system in your neighborhood.	analyzing, inferring, applying, hypothesizing, drawing conclusions. 4. Data collection.	FA III 10 FA IV 10 SA II 40 TOTAL 60
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