

CCE CALENDAR FOR 2012-13

CLASS VIII

SCIENCE

TERM -1 (April – September)

TOPICS TO BE COVERED	MODE OF ACTIVITIES	COMPETENCIES/ SKILLS/CONCEPTS TO BE ASSESSED
Crop production	<ol style="list-style-type: none"> 1. Crossword puzzle 2. Flow chart 3. Collection of pictures of agricultural implements- make a scrap book 4. Discussion on storage of grains 	<ol style="list-style-type: none"> 1. Inquisitiveness, recall, correlate 2. recall, recollect, spatial thinking 3. Accurate recalling of events, documentation of learner's experience 4. spirit of enquiry, assertive
Micro organisms	<ol style="list-style-type: none"> 1. Quiz 2. Crossword puzzle 3. Flow chart of Nitrogen cycle 4. Group activity- evolution of carbon di oxide by fermentation of sugar solution 5. Seminar on vaccination and antibiotics 6. Identification of common food preservatives from common food items/soft drink, jam, chips, pickles. 7. Group discussion on importance of immunization 	<ol style="list-style-type: none"> 1. Conceptualisation, Application, Calculation 2. Inquisitiveness, recall, correlate, mental alertness 3. Recall, recollect, spatial thinking 4. Active participation, observation, critical thinking, leadership qualities, communication 5. leadership qualities, communication, innovative and scientific achievement 6. Able to apply relevant knowledge and tabulate facts well 7. Active participation, makes interesting observation, analyse critically and generate new ideas

<p>Combustion and flame</p>	<ol style="list-style-type: none"> 1. Collection and sorting of materials into combustible and non-combustible materials. 2. Making a working model of a fire extinguisher. 3. Quiz/oral questions 4. Worksheet on different zones of a flame. 5. Group discussion on global warming. 	<ol style="list-style-type: none"> 1. Observation, organize, analyse, record and draw conclusion. 2. Creativity, critical thinking, correlating with real life, self-confidence 3. Conceptualization, Application, Calculation 4. Identification, ability understand, to grasp, recall, define and reason. 5. Spirit of enquiry, assertive, active participation, interesting observation, analyse critically and generate new ideas. <ol style="list-style-type: none"> 1. Active participation, team spirit, socialization 2. Spirit of enquiry, assertive, interesting observation, analyse critically, generate new ideas. 3. Inquisitiveness, recall, correlate, mental alertness 4. Accuracy, locating, Labeling, identification, neatness 5. Good communication skills, interpretation, self confidence 6. Creativity, originality and innovative
<p>Conservation of plants and animals</p>	<ol style="list-style-type: none"> 1. Group work –campaign could be launched to protect the endangered species. 2. Group discussion on protected area, national park, wild life sanctuaries and project tiger, biodiversity-hot spots. 3. Crossword puzzle 4. Map work to locate national park, wild life sanctuaries. 5. Pick and speak- deforestation, reforestation, recycling of papers, red data book. 6. Slogan writing 	<ol style="list-style-type: none"> 1. Identification, analyzing, critical thinking 2. Identification and correlation, recall, recollect 3. Interpretation, identity relationship, practical skills. 4. Search for information, articulate ideas. 5. Inquisitiveness, recall, correlate, mental alertness. <ol style="list-style-type: none"> 1. Recall, recollect, Understand 2. Recall, application, mental alertness, speed

Cell structure and function	1. Work sheet –labeling of diagram 2. To name the organelles involved. 3. MCQ 4. Riddles 5. Crossword puzzles	3. Search for information, Identification, analyzing, critical thinking, conceptualization. 4. Recall, recollect, interpretation, identity relationship 5. Inquisitiveness, recall, correlate, mental alertness
Revision		FA I 10 FA II 10 SA I 20 Total 40
Reproduction in animals	II TERM (Oct – Mar) 1. Oral test 2. Quiz 3. Work sheet-scientific Terms 4. MCQ 5. Crossword puzzle	1 . Inquisitiveness, recall, correlate, mental alertness 2. Identification, analyzing, critical thinking, search for information, articulate ideas. 3. Analysing, critical thinking, recall, Recollect, practical skills. 4. Analyse, interpret, draw conclusion, conceptualization 1. Explore work with one's hand, develop positive attitude, sharing and learning, 2. Accuracy, coordination, presentation 3. Identification, analyzing, critical thinking 4. Self confidence, originality, innovative

Reaching the age of adolescence	1. Crossword puzzle 2. Worksheet-scientific terms 3. MCQ 4. Data collection on height of boys and girls and plotting a graph	1. Analyse, interpret, draw conclusion, conceptualization 2. Inquisitiveness, recall, correlate, mental alertness 3. Spirit of enquiry, assertive, active participation, leadership skill 4. Self confidence, originality, innovative
Force and pressure	1. Group activity to identify the effects of force 2. Case study /symposium on pressure and its application in daily life 3. Work sheet on pressure and atmospheric pressure. 4. Individual activity to show contact forces and non-contact forces- Muscular force, friction, electrostatic force, gravitational force and magnetic force	1. Inquisitiveness, recall, correlate, mental alertness 2. Interpretation, practical skills. 3. Recall, application, mental alertness, speed 4. Confident, listening skill, observation, good organization of thought, active participation. 5. Analyse, interpret, draw conclusion, conceptualization, collaborative skill. 6. Spirit of enquiry, assertive, active participation, leadership skill 7. Observation, Inquisitive and systematic approach, recording, analyzing and drawing inference.
Friction	1. Collection of data from the footwear shops to observe soles of shoes. 2. Crossword puzzle 3. Group discussion on advantages and disadvantages of friction.	1. Confident, original, team spirit, develop positive attitude. 2. Collection of data, interpreting, presenting, hypothesizing, decision making, collaborative skills.

<p>Sound</p>	<p>4. Individual activities on factors affecting friction.</p> <p>1. Crossword puzzle on scientific terms.</p> <p>2.MCQ</p> <p>3.Quiz/oral</p> <p>4. Group activity-symposium on uses of ultra sound.</p> <p>5. Survey to analyse the musical instruments for the origin of sound.</p> <p>6. Group discussion on noise pollution.</p> <p>7. Experimental project on vibrating object produce sound-individual activity.</p>	<p>3.Self confidence, scientific skills, inquisitiveness, observation,recording,analyzing.</p> <p>1.Motor skills, spatial skills, logic, practical application skill.</p> <p>2. Spirit of enquiry, assertive, active participation, leadership skill</p> <p>3.Accurate recall of events, creativity, provides insight into emotional, social and psychological aspects.</p> <p>4.Recall,application,mental alertness, speed</p> <p>1.Recall,application, mental alertness, speed.</p> <p>2.Search for information, articulate ideas.</p> <p>3.Confidence,team spirit to learn and share.</p> <p>4.Active participation,observation,critical thinking, communication skill</p> <p>5. Critical thinking, analyzing, interpreting, presenting, collaborative skill.</p> <p>6.Accuracy, coordination,presentation,communication skill.</p>
<p>Chemical effects of electric current</p>	<p>1.Group activity – conduction test for different electrolyte(fruits and vegetables-lemon juice ,vinegar)</p> <p>2. Field trip to commercial electroplating unit and collection of data on objects being electroplated with their purposes.</p> <p>3. Knowledge on disposal of chemical wastes.</p> <p>3.Individual activity on</p>	<p>1.Recall,application,mental alertness, speed.</p> <p>2.Identification,search for information. articulate ideas. 3.Deductive reasoning and analyzing</p> <p>4.Understands events taking place ,helps to indicate different ways of thinking</p> <p>5.Motor skills, spatial skills, logical coordination, practical application skill.</p> <p>6.documentation of learner’s experience</p>

<p>Some natural phenomena</p>	<p>working of testers.</p> <ol style="list-style-type: none"> 1. Making model of electroscope lightning conductor, seismograph. 2. Discussion on protection against earth quake. 3. Poster making on earth quakes, movements of earth's plates. 4. Quiz 	<ol style="list-style-type: none"> 1. Recall, application, mental alertness, speed 2. Confident, team spirit, personality development, communication skill. 3. Understands events taking place ,helps to indicate different ways of thinking. 4. Critical thinking, collaborative skills, presentation 5. Analysing, critical thinking, recall, recollect, interpretation. 6. Active participation, observation, critical thinking, communication skill, leadership quality.
<p>Light</p>	<ol style="list-style-type: none"> 1. Oral/quiz on phenomena-terms, parts of the eye, images etc. 2. Work sheets 3. Group activity to verify the laws of reflection. 4. Group discussion on care of the eyes. 5. Survey –children using the spectacles below the age of 12 years and the possible reasons for their eye defect. 6. Seminar on visually challenged persons and Braille. 	
<p>Stars and the solar system</p>	<ol style="list-style-type: none"> 1. Quiz 2. Worksheet 3. Riddles 	

<p>Pollution of air and water</p>	<p>4.Video clippings</p> <p>5. Preparing a model of solar system showing the planets and their relative sizes.</p> <p>6. Scrap book on artificial satellites and constellations.</p> <p>7. Collection of information using internet.</p> <p>1.Quiz</p> <p>2. Group activity- Symposium on water pollution.</p> <p>3. News analysis- read the paper cutting and answers the questions.</p> <p>4.Case study on monuments(The Taj)</p> <p>5.MCQ</p> <p>6.Group discussion on green house effect and Ganga action plan.</p>	
<p>Revision</p>		<p>FA III 10</p> <p>FA IV 10</p> <p>SA II 40</p> <p>Total 60</p>