

ARMY PUBLIC SCHOOL RK PURAM

SUBJECT- SCIENCE

CLASS - VIII

| TOPIC | ACTIVITIES | VALUES/ TRAITS |
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| 1.Crop Production | <ul style="list-style-type: none">➤ Preparing herbarium of crop plants➤ Collection of some seeds | <ul style="list-style-type: none">➤ Care for nature➤ Creativity |
| 2. Microorganisms | <ul style="list-style-type: none">➤ Making a lens with a bulb➤ Fermentation of dough | <ul style="list-style-type: none">➤ Reasoning➤ Problem Solving |
| 3.Synthetic Fibres and Plastics | <ul style="list-style-type: none">➤ Survey on use of synthetic materials➤ Discussion on the disadvantage of plastic | <ul style="list-style-type: none">➤ Critical thinking➤ Decision Making➤ Observational Skill |
| 4. Metals and Non-metals | <ul style="list-style-type: none">➤ Activities based on physical properties of metals & non-metals➤ Experiments related to displacement reactions | <ul style="list-style-type: none">➤ Reasoning➤ Problem solving |
| 5. Combustion and Fossil Fuels | <ul style="list-style-type: none">➤ Experiments with candles➤ Collecting information on fossil fuels. | <ul style="list-style-type: none">➤ Curiosity➤ Sensitivity towards environment |
| 6. Conservation of plants and animals | <ul style="list-style-type: none">➤ Discussion on depletion of wildlife➤ Discussion on protected areas for animals. | <ul style="list-style-type: none">➤ Sensitivity towards nature➤ Environment Awareness & conservation |

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| <p>7. Cell: Structure & Function</p> | <ul style="list-style-type: none"> ➤ Observation of T.S stem to see tissues ➤ Preparation of onion peel & cheek cells temporary slides. | <ul style="list-style-type: none"> ➤ Cooperation ➤ Confidence ➤ Time intelligence |
| <p>8.Age of Adolescence & 9. Reproduction</p> | <ul style="list-style-type: none"> ➤ Discussion with counselors on secondary sexual characters. ➤ Discussion on gender bias, social taboo & reproductive health. ➤ Discussion on how sex of the child is determined ➤ Chart showing life cycle of frog & butterfly. | <ul style="list-style-type: none"> ➤ Gender sensitive ➤ Positive attitude ➤ Self awareness ➤ Respect ➤ Body strength |
| <p>10. Force & Friction</p> | <ul style="list-style-type: none"> ➤ Observing & analyzing the relation between force & motion in a variety of daily life situation. ➤ Activities on three types of friction ➤ Demonstrating the factors that affect friction. | <ul style="list-style-type: none"> ➤ Logical thinking ➤ Problem solving ➤ Innovative mind-set ➤ Long term vision |
| <p>11. Pressure</p> | <ul style="list-style-type: none"> ➤ Demonstrating that air & liquid exerts pressure. ➤ Observing the dependence of pressure exerted by a force on surface area of an object. | <ul style="list-style-type: none"> ➤ Confidence ➤ Decision making ➤ Curiosity ➤ Long term vision |

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| <p>12. Sound</p> | <ul style="list-style-type: none"> ➤ Demonstrating & distinguishing different types of instruments ➤ Demonstrating that vibration is the cause of sound ➤ Identifying different sources of noise causing noise pollution. | <ul style="list-style-type: none"> ➤ Confidence ➤ Decision making ➤ Curiosity ➤ Long term vision |
| <p>12. Chemical Effects of electric current</p> | <ul style="list-style-type: none"> ➤ Activity to study whether current flows through various liquids. ➤ Demonstration of electroplating | <ul style="list-style-type: none"> ➤ Reasoning ➤ Decision making ➤ Critical thinking |
| <p>13. Some natural phenomena</p> | <ul style="list-style-type: none"> ➤ Discussion on sparks & lightning conductor ➤ Experiments with comb & paper to show positive & negative charge. | <ul style="list-style-type: none"> ➤ Logical thinking ➤ Problem solving ➤ Positive outlook |
| <p>14. Light</p> | <ul style="list-style-type: none"> ➤ Exploring laws of reflection ➤ Observing multiple images ➤ Activity on spectrum ➤ Description of case histories of visually challenged people who have been doing well in their studies & career | <ul style="list-style-type: none"> ➤ Innovative mind-set ➤ Critical thinking ➤ Decision making ➤ Respect, gratitude |

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| <p>15. Stars & Solar system</p> | <ul style="list-style-type: none"> ➤ Observing & determining some prominent stars & constellation. ➤ Designing & preparing models & charts of the solar system ➤ Role play & games for understanding movement of planets | <ul style="list-style-type: none"> ➤ Positive outlook ➤ Creative thinking ➤ Discipline ➤ Curiosity |
| <p>16. Human Intervention in Natural phenomena</p> | <ul style="list-style-type: none"> ➤ Project on recycling paper ➤ Discussion on deforestation | <ul style="list-style-type: none"> ➤ Sensitivity towards nature ➤ Environment Awareness & conservation ➤ Meaningful community service ➤ Caring & Sharing |
| <p>17. Pollution of air & water</p> | <ul style="list-style-type: none"> ➤ Discussion on methods of purification ➤ Discussion on types of pollution | <ul style="list-style-type: none"> ➤ Sensitivity towards nature ➤ Environment Awareness & conservation ➤ Meaningful community service ➤ Caring & Sharing |

