## INTEGRATED SCIENCE – FORM 1 SCHEME OF WORK – Term 3

WEEK	TOPIC	SYLLABUS OBJECTIVES	NUMBER OF SESSIONS	ACTIVITIES/LABS
1	Classification	<ol> <li>Definition of Classification</li> <li>Recognize that each group can be further subdivided</li> <li>Construct dichotomous key ( number and spider key)</li> <li>Discuss the importance if classification</li> </ol>	5	<ul> <li>✓ Identify groupings in everyday life</li> <li>✓ Construct dichotomous keys</li> </ul>
2	Structure and Properties of Matter	<ol> <li>Definition of matter</li> <li>Recognize that matter exists in different states (solids, liquids and gases)</li> <li>Demonstrate the arrangement of particles and how it gives rise to the general properties of solids, liquids and gases.</li> </ol>	5	<ul> <li>✓ Classify materials as solids, liquids and gases</li> <li>✓ Measure the mass and volume of various materials</li> <li>✓ Use models and draw diagrams to show arrangement of particles in solids, liquids and gases</li> </ul>
3 - 4	Structure and Properties of matter	<ol> <li>Explain diffusion and osmosis in terms of particle movement</li> <li>Explain how temperature causes changes in the states of matter</li> </ol>	10	<ul> <li>✓ Experiment demonstrating diffusion using potassium permanganate and water</li> <li>✓ Demonstrate osmosis in potato strips using different concentrations of solution</li> <li>✓ Investigate simple heating/cooling curves for ice and water</li> </ul>
5	Structure and Properties of matter	<ol> <li>Describe the basis structure of the atom</li> <li>Distinguish among electrons, protons and neutrons</li> <li>Distinguish among elements, molecules, compounds and mixtures</li> </ol>	5	<ul> <li>✓ Draw and label the structure of the atom</li> <li>✓ Classify a number of given substances as elements or compounds</li> <li>✓ Classify substances as either mixtures or compounds</li> </ul>

6 - 7	Structure and Properties of matter	<ol> <li>Distinguish between types of mixtures</li> <li>Describe the formation of different types of solutions</li> <li>Describe heterogeneous mixtures</li> </ol>	10	<ul> <li>✓ Explore different kinds of mixtures</li> <li>✓ Prepare various types of solutions using different materials</li> <li>✓ Make suspensions, colloids and mechanical mixtures</li> <li>✓ Examine colloids and mechanical mixtures</li> </ul>
8	Revision	1. Review of the year's work		