

Science Curriculum Map for grade 7

| Unit Names / Topics | Strand/ Substrand                              | Standard   | Benchmark   | Key Learnings   | Possible Activities Used  | Possible Resources Used                                | Possible Assessments of Learning           |
|---------------------|--|--|---|---|---|--|--|
| Structure of Matter | II. Physical Science<br>A. Structure of Matter | 4. Understand that matter is made of small particles and this explains the properties of matter. | 1. Know that there are more than 100 different elements with unique properties.   | Matter is made of about 100 elements which determine the properties of that matter. | Mineral ID tests, Periodic table discussion/activity                                    | Lab supplies and templates, textbook (p. 44-56)        | Lab report from mineral ID lab, worksheets |
|                     |  |  | 2. Use evidence to explain that matter is made of small particles called atoms or molecules which are too small to see. | Matter is made of molecules.  | Pressure labs, Thermal Expansion of Matter Lab, demos, and video, States of Matter Labs | Lab supplies and templates, textbook (p. 44-56), video | Lab reports, Exams, Worksheet              |
|                     |  |  | 3. Know that the mass of a substance remains constant whether it is together, in parts or in a different state.         | Mass remains constant whether it is together or in a different state.               | States of Matter Labs, Ball of clay demo, Thermal Expansion demo/lab,                   | Lab supplies and templates                             | Lab reports, Exams, Worksheet              |
|                     |  |  | 4. Describe the states of matter in terms of the space between particles.   | Matter is the space between particles.  | States of Matter Labs (freezing, melting, boiling and condensing)                       | Lab supplies and templates, poster/chart               | Lab reports, Exams, Worksheet              |