|  |
| --- |
| **Grade 3 SCIENCEUnifying Concept: Cause and Effect** |
| **CURRICULAR COMPETENCIES (DO)** | **BIG IDEAS (UNDERSTAND)** |
| **Biology- Living Things**Living things are diverse, can be grouped, and interact in their ecosystem.  | **Physics - Energy**Thermal energy can be produced and transferred. | **Chemistry - Matter**All matter is made of particles. | **Geology - Wind, Water and Ice**Wind, water & ice change the shape of the land. |
| **CONTENT (KNOW)** |
| **Biodiversity in the Local Environment** | **Aboriginal Knowledge of Ecosystems** | **Energy is Needed for Life** | **Sources of Thermal Energy** | **Transferring Thermal Energy** | **Particles of Matter** | **Properties of Matter** | **Landforms** | **Erosion and Deposition** |
| **THINKING**  | **Questioning &****Predicting** | I can **demonstrate curiosity** about the natural world.  |  |  |  |  |  |  |  |  |  |
| I can **observe** objects & events in familiar contexts. |  |  |  |  |  |  |  |  |  |
| I can **identify questions** about familiar objects & events that can be investigated scientifically. |  |  |  |  |  |  |  |  |  |
| I can **make predictions** based on prior knowledge. |  |  |  |  |  |  |  |  |  |
| **Planning & Conducting** | I can **suggest ways to plan and conduct an inquiry** to find answers to their questions. |  |  |  |  |  |  |  |  |  |
| I can **consider ethical responsibilities** when deciding how to conduct an experiment. |  |  |  |  |  |  |  |  |  |
| I can **safely use appropriate tools to make observations & measurements,** using formal measurements & digital technology as appropriate.  |  |  |  |  |  |  |  |  |  |
| I can **make observations** about living & non-living things in the local environment. |  |  |  |  |  |  |  |  |  |
| I can **collect** simple data. |  |  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Processing & Analyzing Data & Information** | I can **experience and interpret** the local environment.  |  |  |  |  |  |  |  |  |  |
| I can **sort and classify** data and information using methods such as drawings or provided tables. |  |  |  |  |  |  |  |  |  |
| I can **use tables and simple bar graphs** to represent data and show simple patterns and trends. |  |  |  |  |  |  |  |  |  |
| I can **compare results** with predictions, suggesting possible reasons for findings. |  |  |  |  |  |  |  |  |  |
| **Evaluating** | I can **make inferences** based on their results & prior knowledge. |  |  |  |  |  |  |  |  |  |
| I can **reflect** on whether an investigation was a fair test. |  |  |  |  |  |  |  |  |  |
| I can **demonstrate an understanding & appreciation** of evidence. |  |  |  |  |  |  |  |  |  |
| I can **identify some simple implications** of their & others’ actions on the environment. |  |  |  |  |  |  |  |  |  |
| **PERSONAL & SOCIAL** | **Applying & Innovating** | I can **contribute to care for self, others, school, & neighbourhood** through personal orcollaborative approaches**.** |  |  |  |  |  |  |  |  |  |
| I can **co-operatively design projects.** |  |  |  |  |  |  |  |  |  |
| I can **transfer & apply learning** to new situations. |  |  |  |  |  |  |  |  |  |
| I can **generate & introduce** new or refined ideas when problem solving. |  |  |  |  |  |  |  |  |  |
| **COMMUNICATING** | **Communicating** | I can **represent and communicate ideas** & findings in a variety of ways such as diagrams & simple reports, using digital technologies as appropriate. |  |  |  |  |  |  |  |  |  |
| I can **express & reflect** on personal or shared experiences of **place**. |  |  |  |  |  |  |  |  |  |