## **What are Student Learning Outcomes?**

Student learning outcomes describe the knowledge, skills, and attitudes that students are expected to demonstrate in a specific subject area in a course or grade.

Knowledge and skills in each grade are cumulative, building on previous learning outcomes.

In Manitoba the specific student learning outcomes for science are based on the following five foundations for scientific literacy.

| Understand science and technolgy and | Appreciate how science, technology, | Answer questions, solve | Understand theories, concepts, | Under-<br>stand<br>linkages |
|--------------------------------------|-------------------------------------|-------------------------|--------------------------------|-----------------------------|
| Understand science and technolgy and | Appreciate how science,             | Answer questions,       | <b>Understand</b> theories,    | Under-<br>stand<br>linkages |
| science<br>and<br>technolgy<br>and   | how<br>science,                     | questions,              | theories,                      | <b>stand</b><br>linkages    |
| and<br>technolgy<br>and              | science,                            | V                       |                                | linkages                    |
| technolgy and                        |                                     | solve                   |                                |                             |
| and t                                | technology                          | V A                     | concepts                       |                             |
|                                      | icciliology,                        | problems,               | correspie,                     | and                         |
| how                                  | society,                            | and make                | models, and                    | "big ideas" within and      |
| they work.                           | and the                             | decisions.              | principles.                    | among                       |
| e                                    | environment                         | 6                       |                                | different                   |
|                                      | affect                              | 7                       | 7                              | areas of                    |
| 0                                    | one another.                        |                         |                                | scientific                  |
|                                      |                                     |                         |                                | study.                      |
| Aminin NAVA                          |                                     | Amairan,                | Amminuit                       | Ammin                       |