### General Skills

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1. Follow safety procedures in the classroom and laboratory  
2. Make and communicate observations  
3. Formulate, refine and clarify questions  
4. Formulate, refine and clarify hypotheses  
5. Collect and record data  
6a. Safely and accurately use a metric ruler  
6b. balance  
6c. stopwatch  
6d. graduated cylinder  
6e. thermometer  
6f. spring scale  
6g. voltmeter  
7. Use appropriate tool, scale and units to measure or calculate values  
8. Measure precisely with significant figures only  
9. Error analysis of data  
10. Interpret organized data to answer original question or assess hypothesis  
11. Recognize and analyze patterns and trends  
12. Compare, contrast and classify  
13. Develop and use a dichotomous key  
14. Sequence events  
15. Identify cause-and-effect relationships  
16. Use indicators and interpret results  
17. Select and use models to study processes that can not be studied directly

### Living Environment Skills

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1. Manipulate a compound microscope to view microscopic objects  
2. Determine the size of a microscopic object, using a compound microscope  
3. Prepare a wet mount slide  
4. Use appropriate staining techniques  
5. Design and use a Punnett square or a pedigree chart to predict the probability of certain traits  
6. Classify living things according to a student-generated scheme and an established scheme  
7. Interpret and/or illustrate the energy flow in a food chain, energy pyramid or food web  
8. Identify pulse points and pulse rates  
9. Identify structure and function relationships in organisms

### Physical Setting Skills

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1. Use latitude and longitude to find or communicate a location on a map  
2. Using identification tests and a flow chart, identify mineral samples  
3. Use a diagram of the rock cycle to determine how the rock was formed  
4. Plot the location of recent earthquake and volcanic activity on a map and identify patterns  
5. Use a magnetic compass to find cardinal directions  
6. Measure the angular elevation of an object, using appropriate instruments  
7. Generate and interpret field maps including topographic and weather maps  
8. Predict the characteristics of an air mass based on the origin of the air mass  
9. Measure weather variables such as wind speed and direction, relative humidity, pressure, etc.  
10. Determine the density of liquids, and regular- and irregular-shaped solids  
11. Determine the volume of a regular- and an irregular-shaped solid, using water displacement  
12. Using the periodic table, identify an element as a metal, nonmetal or noble gas  
13. Determine the identity of an unknown element, using physical and chemical properties  
14. Using appropriate resources, separate the parts of a mixture  
15. Determine the electrical conductivity of a material, using a simple circuit  
16. Determine the speed and acceleration of a moving object