|  |  |  |
| --- | --- | --- |
| Recognize and describe | Minerals and rocks | Defining the importance in interpreting Earth history |
| Identify | Common invertebrate fossils | Interpreting the ancient environment and assess utility as indicators of geologic time |
| Construct and interpret | Geologic maps and cross-sections | Graphically presenting surface and subsurface geologic information |
| Demonstrate | Standard geoscience laboratory and field techniques | Appropriately manipulating equipment and tools |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Analyze and interpret | Data generated using | Laboratory and field techniques |
| Make systematic scientific observations | Rock samples, outcrops, and stratigraphic sections | interpreting observations using sound scientific principles |
| Make systematic observations and interpretations | Geologic materials | At thin-section and micro-scales |
| Apply knowledge and skills | In physical & life sciences and mathematics | Learning experiences in geoscience coursework |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Demonstrate ability to utilize | The theoretical basis of geology | critically evaluate and analyze data and conclusions of others |
| Distinguishing between scientific and non-scientific | Approaches to solving problems | Demonstrate a preference to scientific explanations |
| Apply | Scientific strategies and methodologies in the Earth sciences | Think critically about solving problems in the discipline |
| Model | the lithosphere, atmosphere, hydrosphere, and biosphere | interactive elements of an evolving Earth system, fractionating over various time spans |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |
| Criteria | Condition | Performance |