

Overview of SHARE: lessons and goals

Goals of the NC 2nd and 3rd grade curriculum that have been included in this project

<p>Nature of Science and Overall Goals:</p> <ul style="list-style-type: none"> • " thinking about explanations (2nd) • " Cooperative and individual learning (2nd) • " Science as units of investigation, systems (3rd) • " Patterns in systems (3rd) • " awareness of others' contributions to science (3rd) <p>Science as inquiry:</p> <ul style="list-style-type: none"> • " use of evidence, explanation, measurement, order and organization (2nd & 3rd) • " Steps include: Ask a question; Conduct an investigation; Record and analyze results; Answer the question; oral, written, and pictorial communication of results (2nd & 3rd). • " Hands-on activities (3rd) 	<p>Science and technology:</p> <ul style="list-style-type: none"> • " Use of tools for observation and measurement (2nd & 3rd) • " Distinguishing among the strengths and uses of various designs (3rd) • " Advantages and disadvantages in problem solutions (3rd) <p>Personal and social perspectives:</p> <ul style="list-style-type: none"> • " safety knowledge ,responsibility, and implementation • " Variance in speed and magnitude of environmental change <p>Competency goals:</p> <ul style="list-style-type: none"> • " Animal life cycles (2nd) • " Weather (2nd) • " Bone and muscle systems (3rd)
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Lessons:

Lesson 1: Introduction to Reptiles and Amphibians

Goals met: animal life cycles, science as systems

Lesson 2: conservation and project introduction

Goals met: Variance in speed and magnitude of environmental change, thinking about explanations (2nd), awareness of others' contributions to science (3rd), introduction to evidence, explanation, measurement, order and organization (2nd & 3rd), Steps of research explained (2nd & 3rd).

preLesson 3: mapping out territory

Lesson 4: Placement of artificial shelters

Goals met: Hands-on activities (3rd), Cooperative and individual learning (2nd), Use of tools for observation and measurement (2nd & 3rd), " safety knowledge ,responsibility, and

implementation

Lesson 5: Connection to weather and Changes by Seasons (after a general unit on weather)

-use of thermometer and rain gauge

Goals met: Patterns in systems (3rd), weather (2nd), Variance in speed and magnitude of environmental change

Lesson 6: Further Examination of Frog and Snake Anatomy and Comparison to Humans

Goals met: Bone and muscle systems (3rd)

Lesson 7: Research collection, building observational habits

Goals met: Hands on activities, group and indiv. learning Use of tools for observation and measurement (2nd & 3rd)

Lesson 8: Data Analysis

Goals met: thinking about explanations (2nd)
science as inquiry

Lesson 9: Results and Conclusions

Goals met: Science as inquiry

Lesson 10: Presentation of Findings

Goals met: Science as inquiry, communication

Lesson 11: Reflection on the Process

Goals met: Distinguishing among the strengths and uses of various designs (3rd)