

# Curriculum Topic Study (CTS) Summary

Select a key lesson that allows you to see your students' thinking or stands at an important intersection for further learning. Use the Curriculum Topic Study Topic list to identify the topic most relevant to this lesson. This topic will be the basis of your CTS summary.

CTS Topic Guide: \_\_\_\_\_ Page: \_\_\_\_\_

Curriculum: \_\_\_\_\_ Grade: \_\_\_\_\_

<b>Accessing Prior Knowledge</b>	<ol style="list-style-type: none"><li>1. What important ideas or skills make up this topic?<ul style="list-style-type: none"><li>•</li></ul></li> <li>2. What is important for students to know and be able to do about this topic?<ul style="list-style-type: none"><li>•</li></ul></li> <li>3. What learning opportunities or teaching strategies are most effective with this topic?<ul style="list-style-type: none"><li>•</li></ul></li> <li>4. What difficulties or misconceptions are associated with his topic?<ul style="list-style-type: none"><li>•</li></ul></li></ol>
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Using CTS: Choose a CTS study guide that best describes the topic covered in this set of lessons. You will use this study guide to complete your CTS summary.

<b>I. Identify Adult Content Knowledge</b>	<b>IA: Science for All Americans</b> ▶ Readings: _____ <b>IB: Science Matters- Achieving Scientific Literacy</b> ▶ Readings: _____
Examine the resources indicated in Section I of the CTS study guide.	<ol style="list-style-type: none"><li>1. What big ideas and major concepts make up this topic?<ul style="list-style-type: none"><li>•</li></ul></li> <li>2. What examples or contexts were used to explain the ideas?<ul style="list-style-type: none"><li>•</li></ul></li> <li>3. What insights about the topic did you gain from this reading and how might these insights inform your classroom practice?<ul style="list-style-type: none"><li>•</li></ul></li></ol>

Check with your facilitator before going on to the next section.



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<b>III. Identify Concepts and Specific Ideas</b>	<b>IIIA: Benchmarks for Science Literacy</b> ▶ Readings for selected grade levels: _____  <b>IIIB: National Science Education Standards</b> ▶ Readings for selected grade levels: _____
Examine the resources indicated in section three of the CTS study guide.	<ol style="list-style-type: none"><li>1. What learning goals align well with this topic?<ul style="list-style-type: none"><li>•</li></ul></li> <li>2. How do these goals help you clarify what is important to teach in this topic?<ul style="list-style-type: none"><li>•</li></ul></li> <li>3. How does the learning goal change from one grade span to the next?<ul style="list-style-type: none"><li>•</li></ul></li> <li>4. What insights about the topic did you gain from this reading and how might these insights inform your classroom practice?<ul style="list-style-type: none"><li>•</li></ul></li></ol>

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<p><b>IV. Examine Research on Student Learning</b></p>	<p><b>IVA: Benchmarks for Science Literacy</b>          Readings: _____</p> <p><b>IVB: Making Sense of Secondary Science- Research Into Children's Ideas</b>          ▶ Readings: _____</p>
<p>Examine the resources indicated in section four of the CTS study guide.</p>	<ol style="list-style-type: none"> <li>1. What specific misconceptions or alternative ideas might a student have about this topic?             <ul style="list-style-type: none"> <li>•</li> </ul> </li>   <li>2. Which ideas might be more resistant to change?             <ul style="list-style-type: none"> <li>•</li> </ul> </li>   <li>3. Are there examples of questions or tasks that could be used to find out what students know about this topic?             <ul style="list-style-type: none"> <li>•</li> </ul> </li>   <li>4. What insights about the topic did you gain from this reading and how might these insights inform your classroom practice.             <ul style="list-style-type: none"> <li>•</li> </ul> </li> </ol>

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<b>V. Examine Coherency and Articulation</b>	<b>V: Atlas of Science Literacy</b> ▶ Selected maps to read: _____
Examine the resources indicated in section five of the CTS study guide.	<ol style="list-style-type: none"><li>1. What connections can you identify among concepts or skills in the topic?<ul style="list-style-type: none"><li>•</li></ul></li> <li>2. What prerequisite ideas can you identify for learning the topic at your grade level?<ul style="list-style-type: none"><li>•</li></ul></li> <li>3. What insights about the topic did you gain from this reading and how might these insights inform your classroom practice.<ul style="list-style-type: none"><li>•</li></ul></li></ol>

