

# i3 STC Kit Extension Activities

## North Carolina

Grade: 5th	
<b>Kit Name:</b> <i>Microworlds</i>	
Essential Standard(s): (List number, standard, clarifying objectives where appropriate)	
Explain why some organisms are capable of surviving as a single cell while others require many cells that are specialized to survive.	
Unpack the Standard (What does it mean?? What is the “Big Idea”?): The students will be able to distinguish between unicellular and multicellular systems and give examples of each.	
What is the Engaging (will get the student interested) Essential Question that the students will be trying to answer as a result of this Extension? How are structures and functions related in living things?	
Which activities in the kit touch on the Standard(s) and how can they be adjusted to better address the Standard(s)? The activities of studying the onion, Volvox, Blepharisma and Vinegar Eels. Using extension lessons in addition to the kit lessons will better address the Standards.	
<b>Kit Activity</b>	<b>Extension Suggestions</b>
Lessons 11 ‘Looking Inside a Onion’ Lesson 12 ‘Looking at Living Things: Volvox’ Lesson 13 ‘Looking at Living Things: Blepharisma’	<b><i>The Cell as System</i></b> <b>Purpose:</b> To review cell structure and investigate how the compounds of a cell operate as a system. <b>Lesson plan at:</b> <a href="http://www.sciencenetlinks.com/lesson/cells-2-the-cell-as-a-system/">www.sciencenetlinks.com/lesson/cells-2-the-cell-as-a-system/</a>  <a href="http://www.sciencenetlinks.com">www.sciencenetlinks.com</a>
Lesson 14 ‘Looking at Living Things: Vinegar Eels’	<b><i>Single and Multi-Cellled Organisms</i></b> Lesson plan at:

	<a href="http://www.wiki.coe.jmu.edu/msme/admin/download.html">www.wiki.coe.jmu.edu/msme/admin/download.html</a>

Additional Suggestions (Literature connections; online resources):

[www.twigcarolina.com](http://www.twigcarolina.com)

[www.scholastic.com/trueflix](http://www.scholastic.com/trueflix) (non fiction literature and videos)

[www.chesterfieldk12.sc.us/cheeraw](http://www.chesterfieldk12.sc.us/cheeraw)

[www.johnstonk12.nc.us/elemdocs](http://www.johnstonk12.nc.us/elemdocs)

ncdpi live binder

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