## i3 STC Kit Extension Activities

### North Carolina

**Grade:** 7

**Kit Name:** *Experimenting with Forces and Motions*

**Essential Standard(s):** (List number, standard, clarifying objectives where appropriate)

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<th>Standard</th>
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<td>7.P.2.4 Explain how simple machines such as inclined planes, pulleys, levers and wheel and axles are used to create mechanical advantage and increase efficiency.</td>
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**Unpack the Standard (What does it mean?? What is the “Big Idea”?):**

*Students investigate the function of simple machines.*

**What is the Engaging (will get the student interesting) Essential Question that the students will be trying to answer as a result of this Extension?**

*How does the use of simple machines make our lives a little easier?*

**Which activities in the kit touch on the Standard(s) and how can they be adjusted to better address the Standard(s)?**

*This kit does not address this essential standard.*

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<th>Kit Activity</th>
<th>Extension Suggestions</th>
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**Additional Suggestions (Literature connections; online resources):**

This resource requires students to have access to a computer.

Teachers will use the following website for students to investigate simple machines.


The lesson will begin with students taking a pretest.

Students will then access the website to complete the lesson.

Students will spend approximately 8-10 minutes in each room within the website. Students will record their scores into their interactive notebooks.

Upon completion students will then take a posttest.

(The pretest and posttest can be found in the teacher’s guide.)