

# Learning Activity Template

Title: Simple Machine Quest

Curriculum: Science/Physical Science

Grade-Level Span: Grade 5

**PURPOSE:** The students will understand that changes in speed or direction of motion are caused by forces.

**DESCRIPTION:** Use a simple machine to demonstrate its use and explain how it works.

ACTIVITIES	CURRICULUM STANDARDS	NETS PERFORMANCE INDICATORS
Explore the websites listed under Resources	Grade 5 II. D. 1/2	3,1,5,6
Prepare a short report that includes the following information: <ol style="list-style-type: none"> <li>1. Name the six categories of simple machines.</li> <li>2. Explain how each of the six simple machines work.</li> <li>3. Give an example and draw a diagram of each of the six simple machines.</li> </ol> Be sure to use the following words in your report: force, gravity, motion, friction. <ol style="list-style-type: none"> <li>4. List two websites that were your best source of information.</li> </ol>	Grade 5 II. D. 1/2	3,1,5,6
Randomly select one of the six simple machines and be prepared to demonstrate its use, explain how it works and give an everyday use.	Grade 5 II. D. 1/2	3,1,5,6

**TOOLS AND RESOURCES:**

(List all Web sites, specific software and hardware, and other needs.)

- [www.fi.edu/qa97/spotlight3/spotlight3.html](http://www.fi.edu/qa97/spotlight3/spotlight3.html)    
 [www.mos.org/sln/Leonardo/InventorsToolbox.html](http://www.mos.org/sln/Leonardo/InventorsToolbox.html)  
[www.edhead.org/activites/simple-machine/index.htm](http://www.edhead.org/activites/simple-machine/index.htm)    
[www.sirnet.net/~jgjohnso/simple.html](http://www.sirnet.net/~jgjohnso/simple.html)  
[www.mikids.com/Smachines.htm](http://www.mikids.com/Smachines.htm)

**ASSESSMENT:**

(How will you assess the students' learning? If you have a rubric, record it here. Be as specific as possible.) Exceeds expectation                      Meets expectation                      Does not meet expectation  
 Writing

Diagram  
Websites  
Demonstration

**CREDITS (INCLUDING CONTACT INFORMATION):**

(Record the names and e-mail addresses, if possible, of those who contributed to the development of this learning activity.)

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**COMMENTS:**

(Have you taught this learning activity before? What are the great ah ha's/experiences you had?)

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