



**About *Amazing Machine!*  
and the  
National Science Education Standards: Content Standards  
Grades K – 4**

In *Amazing Machine!* students explore the inner workings of machines. Through interactive exhibits, students gain an understanding of how various components, which are actually simple machines such as pulleys, gears and screws, are combined into complex machines that perform complex tasks. They explore how energy and power are transformed into motion, and how various forms of control regulate that motion. They also trace the historical development of some technological designs. Concepts in the exhibit correlate to the following National Science Education Standards for content for Kindergarten through Grade 4:

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| Unifying Concepts and Processes Standard             | <ul style="list-style-type: none"><li>• Systems, order, and organization</li><li>• Evidence, models, and explanation</li><li>• Constancy, change, and measurement</li><li>• Form and function</li></ul> |
| Content Standard A:<br>Science as Inquiry            | <ul style="list-style-type: none"><li>• Abilities necessary to do scientific inquiry</li><li>• Understandings about scientific inquiry</li></ul>  |
| Content Standard B:<br>Physical Science              | <ul style="list-style-type: none"><li>• Position and motion of objects</li><li>• Light, heat, electricity, and magnetism</li></ul>  |
| Content Standard E:<br>Science and Technology        | <ul style="list-style-type: none"><li>• Understanding about science and technology</li></ul>  |
| Content Standard G:<br>History and Nature of Science | <ul style="list-style-type: none"><li>• Science as a human endeavor</li></ul>   |

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**About *Amazing Machine!*  
and the  
National Science Education Standards: Content Standards  
Grades 5 - 8**

In *Amazing Machine!* students explore the inner workings of machines. Through interactive exhibits, students gain an understanding of how various components, which are actually simple machines such as pulleys, gears and screws, are combined into complex machines that perform complex tasks. They explore how energy and power are transformed into motion, and how various forms of control regulate that motion. They also trace the historical development of some technological designs. Concepts in the exhibit correlate to the following National Science Education Standards for content for Grades 5 through 8:

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|  |   |
|--|---|
| Unifying Concepts and Processes Standard                           | <ul style="list-style-type: none"><li>• Systems, order, and organization</li><li>• Evidence, models, and explanation</li><li>• Constancy, change, and measurement</li><li>• Form and function</li></ul> |
| Content Standard A:<br>Science as Inquiry                          | <ul style="list-style-type: none"><li>• Understandings about scientific inquiry</li></ul>   |
| Content Standard B:<br>Physical Science                            | <ul style="list-style-type: none"><li>• Transfer of energy</li><li>• Motion and forces</li></ul>  |
| Content Standard E:<br>Science and Technology                      | <ul style="list-style-type: none"><li>• Understandings about science and technology</li></ul>   |
| Content Standard F:<br>Science in Personal and Social Perspectives | <ul style="list-style-type: none"><li>• Science and technology in society</li></ul>   |
| Content Standard G:<br>History and Nature of Science               | <ul style="list-style-type: none"><li>• Science as a human endeavor</li><li>• History of science</li></ul>  |

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**About *Amazing Machine!*  
and the  
National Science Education Standards: Content Standards  
Grades 9 - 12**

In *Amazing Machine!* students explore the inner workings of machines. Through interactive exhibits, students gain an understanding of how various components, which are actually simple machines such as pulleys, gears and screws, are combined into complex machines that perform complex tasks. They explore how energy and power are transformed into motion, and how various forms of control regulate that motion. They also trace the historical development of some technological designs. Concepts in the exhibit correlate to the following National Science Education Standards for content for Grades 9 through 12:

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|  |   |
|--|---|
| Unifying Concepts and Processes Standard             | <ul style="list-style-type: none"><li>• Systems, order, and organization</li><li>• Evidence, models, and explanation</li><li>• Constancy, change, and measurement</li><li>• Form and function</li></ul> |
| Content Standard B:<br>Physical Science              | <ul style="list-style-type: none"><li>• Chemical reactions</li><li>• Motions and forces</li><li>• Conservation of energy</li></ul>  |
| Content Standard E:<br>Science and Technology        | <ul style="list-style-type: none"><li>• Understandings about science and technology</li></ul>   |
| Content Standard G:<br>History and Nature of Science | <ul style="list-style-type: none"><li>• Science as a human endeavor</li><li>• Historical perspectives</li></ul>   |

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