



**About *Real Pirates*
and the
Pennsylvania Academic Standards for Science and Technology
By the End of Grade 4**

Visitors to *Real Pirates* go on a virtual journey on the Whydah, the slave ship that became a pirate ship. They have the opportunity to view over 200 artifacts that have been recovered from the shipwreck site off the New England Coast. In a replica of the laboratory, visitors see a demonstration of the technologies that have been used to conserve and examine these artifacts. They also learn about changes to the artifacts that occurred during the 300 years in the marine environment. Concepts in the exhibit correlate to the following benchmarks that students need to acquire by the end of Grade 4, according to the Pennsylvania Academic Standards for Science and Technology:

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| 3.1.4 Unifying Themes | B. Models as useful simplifications of objects or processes.
D. Know that scale is an important attribute of natural and human made objects, events and phenomena.
E. Recognize change in natural and physical systems. |
| 3.2.4 Inquiry and Design | A. Identify and use the nature of scientific and technological knowledge.
B. Describe objects in the world using the five senses. |
| 3.4.4 Physical Science, Chemistry and Physics | A. Recognize basic concepts about the structure and properties of matter.
C. Observe and describe different types of force and motion |
| 3.5.4 Earth Sciences | D. Recognize earth's different water resources. |
| 3.7.4 Technological Devices | A. Explore the use of basic tools, simple materials and techniques to safely solve problems. |
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**About *Real Pirates*
and the
Pennsylvania Academic Standards for Science and Technology
By the End of Grade 7**

Visitors to *Real Pirates* go on a virtual journey on the Whydah, the slave ship that became a pirate ship. They have the opportunity to view over 200 artifacts that have been recovered from the shipwreck site off the New England Coast. In a replica of the laboratory, visitors see a demonstration of the technologies that have been used to conserve and examine these artifacts. They also learn about changes to the artifacts that occurred during the 300 years in the marine environment. Concepts in the exhibit correlate to the following benchmarks that students need to acquire by the end of Grade 7, according to the Pennsylvania Academic Standards for Science and Technology:

3.1.7 Unifying Themes

- D. Explain scale as a way of relating concepts and ideas to one another by some measure.
- E. Identify change as a variable in describing natural and physical systems.

3.3.7 Biological Sciences

- A. Describe the similarities and differences that characterize diverse living things.

3.4.7 Physical Science, Chemistry and Physics

- A. Describe concepts about the structure and properties of matter.
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**About *Real Pirates*
and the
Pennsylvania Academic Standards for Science and Technology
By the End of Grade 10**

Visitors to *Real Pirates* go on a virtual journey on the Whydah, the slave ship that became a pirate ship. They have the opportunity to view over 200 artifacts that have been recovered from the shipwreck site off the New England Coast. In a replica of the laboratory, visitors see a demonstration of the technologies that have been used to conserve and examine these artifacts. They also learn about changes to the artifacts that occurred during the 300 years in the marine environment. Concepts in the exhibit correlate to the following benchmarks that students need to acquire by the end of Grade 10, according to the Pennsylvania Academic Standards for Science and Technology:

3.2.10 Inquiry and Design

A. Apply knowledge and understanding about the nature of scientific and technological knowledge.

3.4.10 Physical Science, Chemistry and Physics

A. Explain concepts about the structure and properties of matter.

**About *Real Pirates*
and the
Pennsylvania Academic Standards for Science and Technology
By the End of Grade 12**

Visitors to *Real Pirates* go on a virtual journey on the Whydah, the slave ship that became a pirate ship. They have the opportunity to view over 200 artifacts that have been recovered from the shipwreck site off the New England Coast. In a replica of the laboratory, visitors see a demonstration of the technologies that have been used to conserve and examine these artifacts. They also learn about changes to the artifacts that occurred during the 300 years in the marine environment. Concepts in the exhibit correlate to the following benchmarks that students need to acquire by the end of Grade 12, according to the Pennsylvania Academic Standards for Science and Technology:

3.4.12 Physical Science, Chemistry and
Physics

A. Apply concepts about the structure and properties of
matter.
