

3<sup>RD</sup> GRADE



**The Works**<sup>®</sup>

Ohio Center for History, Art & Technology

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**BIOENERGY**



**DR. JONES, I PRESUME?**



**MAKE IT/SHIP IT**

**POLYMERS**

**SCIENCE OF GLASS**

**SOUND**



**TRANSPORTATION TOUR**

## EDUCATION PROGRAMS

### Bioenergy

**Discover Earth's resources and how they can be used for the energy they contain. Explore bioenergy and the differences between renewable and nonrenewable resources as they relate to energy.**

**Science:** Earth's resources can be used for energy

Heat, electrical energy, light, sound and magnetic energy are forms of energy.

**Social**

**Studies:** Resources can be used in various ways. Individuals must make decisions because of the scarcity of resources. Making a decision involves an opportunity cost, the value of the next best alternative given up when an economic choice is made.

### Dr. Jones, I Presume?

**Guided by Dr. Illinois Jones, students will explore the museum's history displays by sorting a collection of artifacts into exhibits.**

**Social**

**Studies:** Primary sources, such as artifacts, maps, and photographs, can be used to show change over time.

### Make It/Ship It

**Hosted by a living history portrayal of local businessman Reinhard Scheidler, students will organize their own factories in 1900 Newark, Ohio. Students will actively explore the museum's second floor industry exhibits to make economic decisions, work within a given budget, and consider the trade-offs of their decisions. Students will also decide on the best means of transportation at the time to ship their product.**

**Social**

**Studies:** Individuals must make decisions because of the scarcity of resources. Making a decision involves an opportunity cost, the value of the next best alternative given up when an economic choice is made. A consumer is a person whose wants are satisfied by using goods and services. A producer makes goods and/or provides services. Making decisions involves weighing costs and benefits.

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## Polymers

**Students will discover that shape and compressibility are properties that can distinguish between the states of matter.**

**Math:** Measure and estimate liquid volumes.

Generate measurement data by measuring lengths using rules marked with halves and fourths of an inch.

**Science:** Matter exists in different states, each of which has different properties.

## Science of Glass

**Students will discover the states of matter and how materials, such as glass, can change state and shape. Explore how local history was influenced by glass.**

**Science:** Earth's nonliving resources have specific properties.

Matter exists in different states, each of which has different properties.

**Social**

**Studies:** Events in local history can be shown on timelines organized by years, decades, and centuries.

## Sound

**Students will explore sound as a form of energy through hands-on experimentation with different objects. Experimentation will allow students to discover that sounds can travel through different types of matter.**

**Science:** Matter exists in different states, each of which has different properties.

Heat, electrical energy, light, sound, and magnetic energy are forms of energy.

## Transportation Tour

**On this brief walking tour of the museum grounds, students will learn how the evolution of transportation changed Newark's history.**

**Social**

**Studies:** Local communities change over time. Evidence of human modification of the environment can be observed in the local community. Systems of transportation and communication move people, products, and ideas from place to place.

## How do I register for an Education Program?

Call or Email The Works Education Team (740) 349-9277

Rori Leath, STEM Education Director (PreK-5) – [RoriLeath@attheworks.org](mailto:RoriLeath@attheworks.org)

Meghan Federer, STEM Education Director (6-12) – [MeghanFederer@attheworks.org](mailto:MeghanFederer@attheworks.org)

Interested in  
opportunities not  
listed here?  
Call or email  
The Works  
Education Team

 Program not available as a Classroom Session.

\*NOTE: Full program standards and descriptions available in teacher packet for each program.

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