

# 4<sup>TH</sup> GRADE



**The Works**<sup>®</sup>  
Ohio Center for History, Art & Technology

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## EDUCATION PROGRAMS

-  **DR. JONES, I PRESUME?**  
**ENERGY & ELECTRICITY**  
**INVENTION**
-  **MAKE IT/SHIP IT**  
**PLEISTOCENE DENTIST**  
**POLYMERS**  
**SCIENCE OF GLASS**
-  **TRANSPORTATION TOUR**

### 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 and secondary sources can be used to create historical narratives.

### Energy & Electricity

**Discover different types of energy and dig deeper into electrical energy. Build and test an electrical circuit to explore how different objects react to electrical energy.**

**Science:** Discover different types of energy and dig deeper into electrical energy. Build and test an electrical circuit to explore how different objects react to electrical energy.

### Invention

**Discover the invention process, learn different ways to invent and be inspired by famous inventors. Use the knowledge acquired to create an invention that shows the transfer of energy.**

**Science:** Energy can be transformed from one form to another or can be transferred from one location to another.

### Make It/Ship It

**Students will actively explore the museum's second floor industry exhibits to organize their own 1900s factory, make economic decisions, work within a given budget, and consider the trade-offs of their decisions. They will also decide on the best means of transportation at the time to ship their product.**

**Social**

**Studies:** Entrepreneurs organize productive resources and take risks to make a profit and compete with other producers.

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## Pleistocene Dentist

**Observe fossil reproductions to determine what can be learned from just the teeth of an animal. Compare fossil reproductions of Pleistocene mammals to currently living mammals making special note of their similarities and differences.**

**Science:** Fossils can be compared to one another and to present-day organisms according to their similarities and differences.

## Polymers

**Students will gain knowledge of polymers and how they are useful. Through experimentation with a super-absorbent polymer, students will investigate conservation of matter.**

**Science:** The total amount of matter is conserved when it undergoes a change.

## Science of Glass

**Students will explore the transfer of energy, moving from warm to cool places.**

**Science:** Energy can be transformed from one form to another or can be transferred from one location to another.

## 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:** People have modified the environment since prehistoric times. There are both positive and negative consequences for modifying the environment in Ohio and the United States. Ohio's location and its transportation systems continue to influence the movement of people, products, and ideas in the United States..

## 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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