TEXTILES

FIBER TO FABRIC

WEAVE • DESIGN • CREATE

Field guide for educators



GRADES

K-5

Subject Connections:
Science • Math • ELA
Social Studies • Art • STEM

ABOUT THE EXHIBIT

Discover how natural and synthetic fibers are turned into yarn, woven on a loom, and transformed into the textiles we use every day. Design your own pattern and become a textile expert!

Exhibit Partner



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ESSENTIAL QUESTION

How do people turn fibers into the fabrics and products we use every day?

GEORGIA STANDARDS CONNECTIONS

SCIENCE

S1P1a. Plan and carry out investigations of the properties of matter.
S4L1b. Obtain, evaluate, and communicate information about the physical adaptations of living things.

MATH

MGSE1.OA.1 – Describe patterns (AB, ABC, ABB...).
MGSE3.MD.3 – Draw a scaled picture graph and a scaled bar graph.

ELA

ELAGSE2RL1 – Ask and answer questions about key details in a text.
ELAGSE4L.5 – Demonstrate understanding of figurative language (e.g., pattern, repetition).

SOCIAL STUDIES

SS2E1: Explain how people in Georgia have used available resources to meet their needs.
SS4E3: Describe how products are produced and distributed.

TEXTILE VOCABULARY

FIBER – the small thread-like parts that make up yarn.

YARN – fiber that is spun together to make a long strand.

WEAVE – the over-and-under pattern that makes fabric.

LOOM – a tool used to weave yarn into fabric.

WARP – the vertical yarns on the loom.

WEFT – the horizontal yarns woven over and under the warp.

PATTERN – a design created by the order of colors and weaves.

TEXTILE – any material made by weaving, knitting, or bonding fibers.

STUDENTS WILL...

- Identify natural and synthetic fibers.
- Explain how yarn is made.
- Understand the weaving process and create a pattern on a loom.
- Recognize that textiles are designed and used in many ways.

GRADES K-5

TEXTILES



SCAVENGER HUNT!

Find these items in the Textiles Exhibit!

- ○ Natural fiber (wool)
- ○ Synthetic fiber (polyester)
- ○ Spinning wheel or yarn maker
- ○ Weaving loom
- ○ Example of a finished product made from fabric
- ○ A pattern you would like to try

MUSEUM CHALLENGE

Use the loom to create your own pattern! Try different colors and weaves.

Think like a designer!

WHAT STORY DOES YOUR PATTERN TELL?



TAKE IT FURTHER
BACK IN THE CLASSROOM

Create a paper weave. Cut colorful paper strips and weave them over and under to make a pattern.



CAREER CONNECTION

People with different jobs help create the textiles we use every day!

- ✓ **Textile Designer**
- ✓ **Fashion Designer**
- ✓ **Weaver**
- ✓ **Materials Scientist**

What job would you like to try?

DID YOU KNOW

The world's oldest known woven fabric is more than 9,000 years old!

Scan or Click Me

Watch a video to see how weaving comes to life!

THANK YOU

for inspiring the next generation of creators, designers, and innovators!

Interactive Neighborhood for Kids, inc.

LEARN TODAY. LEAD TOMORROW.

inkfun.org

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