

## Newspaper Super Structures

*Children will build structures using newspaper and other materials.*

### Big Idea

Different materials can be used in a variety of ways to build structures.

### Illinois Early Learning Standards

<p><b>11.A.ECa</b> Express wonder and curiosity about their world by asking questions, solving problems, and designing things.</p>	<p>Children will observe and analyze the buildings in the pictures and use that information to design their own structures based on buildings they've observed in life.</p>
<p><b>11.A.ECb</b> Develop and use models to represent their ideas, observations, and explanations through approaches such as drawing, building or modeling with clay.</p>	<p>Children will make predictions about the sturdiness of materials and manipulate the newspaper to make it sturdier, building with it to test their hypotheses.</p>
<p><b>11.A.ECe</b> Use mathematical and computational thinking.</p>	<p>Children will make inferences about weight and other measurements when trying to balance and create their structure.</p>

### Materials

- Pictures of various stages of buildings being constructed
- Masking tape
- Scissors
- Newspaper
- Flat cardboard or cardboard tubes (optional)
- Paint and markers (optional)

### Setup

Table or floor space for children to build and create with the provided materials.

### Directions

1. Show pictures of buildings and stages of construction, and have children discuss the importance of frames and foundations for any structure they might want to create.
2. Provide children with the supplies listed above and have the children reference the different pictures provided while using the supplies to build a structure.

- Using what they notice about the buildings in the pictures, they can adjust and reconstruct in their own towers.
3. Have the children decorate their structures after building and talk about what their structure can be used for or why they decided to construct it in the way they did.

### **Investigation Questions:**

- Which material do you think would make the best frame? Why?
- Do you think newspaper or cardboard would be helpful building materials in real life?
- What could your structure be used for?
- Why did you decide to put those pieces of paper there?
- Are there any different parts of your structure that you can tell me about?