



# Making Sailboats

Standard Connection:

- ELA.RL.PK4.4a
- ELA.W.PK4.1
- M.G.PK4.2
- M.G.PK4.3
- S.PS.PK4.4
- PD.FM.PK4.4
- VA.CR2.2.PK

**Enduring Understanding(s):**

- Weather can inspire artistic expression and provide opportunities for recreation.

**Essential Question(s):**

- How do living things work together to solve problems and accomplish goals?

Materials	Vocabulary	Books
<ul style="list-style-type: none"> <li>• <i>Gilberto and the Wind</i></li> <li>• images of sailboats (see Resource)</li> <li>• water repellent</li> <li>• Beautiful Stuff (milk cartons, butter tubs, cereal bowls, etc.)</li> <li>• modeling clay (to anchor mast and sail)</li> <li>• straws</li> <li>• craft sticks</li> <li>• coffee stirrers</li> <li>• construction paper</li> <li>• tape</li> <li>• waterproof Band-Aids (as adhesives)</li> <li>• Styrofoam trays</li> <li>• paper plates</li> </ul>	<p><b>sail:</b> a piece of material used to catch the wind on a boat</p> <p><b>sailboat:</b> a boat moved by the wind using a sail</p> <p><b>mast:</b> pole that holds up the sail</p> <p><b>wind:</b> movement of air</p> <p><b>propel:</b> move something forward</p> <p><b>hull:</b> the framework of a boat</p> <p><b>fasten:</b> to connect</p> <p><b>attach:</b> to join together</p>	

Intro to Centers	
<b>Preparation: Set up materials</b>	
<p>“In <i>Gilberto and the Wind</i>, Gilberto made a <b>sailboat</b>, and the <b>wind propelled</b> it - blew it across the water. What do you notice?”</p>	<p><b>Show illustration.</b> <b>Children respond.</b></p>
<p>“Here are images of <b>sailboats</b>. How are these <b>sailboats</b> similar to or different from Gilberto’s <b>sailboat</b>?”</p>	<p><b>Show images.</b> <b>Children respond.</b></p>
<p>“<b>Sailboats</b> have three main parts. The <b>hull</b>, the <b>mast</b>, and the <b>sail</b>.”</p>	<p><b>Point to these parts on the diagram.</b></p>
<p>“Today, you can use these materials to make <b>sailboats</b> in Creative Arts. Use clay to <b>fasten</b> your <b>mast</b> to your <b>hull</b>. What do you notice?”</p>	<p><b>Show materials.</b> <b>Model using the clay to attach the mast.</b> <b>Children respond.</b></p>
<p>“<b>Attach</b> a <b>sail</b> to the <b>mast</b> so that the wind can <b>propel</b> your <b>sailboat</b>, like Gilberto’s.”</p>	

### **During Centers:**

Encourage children to experiment with using different adhesives to attach the mast, hull, and sail to their sailboats. Support children in drawing a diagram of their sailboat and labeling it in Creative Writing.

Encourage children to notice the different shapes of sails that they and their friends are making. Compare and contrast water-resistant materials vs. non-water-resistant materials (cardboard, etc.)

### **Guiding Questions During Centers:**

- How is your sailboat similar to or different from Gilberto's sailboat?
- How is a sailboat similar to or different from other forms of transportation?
- Why are these materials helpful for constructing a sailboat? (Guide children to consider the water-resistant properties of materials vs. non-water-resistant materials)
- Sailboats don't use engines. What are other forms of transportation that are not propelled by engines? (Bicycles, skateboards, horses, etc.)

### **Thinking and Feedback:**

Invite children to share their processes. Encourage children to describe the challenges they might have encountered.

### **Documentation:**

Collect samples of the children's work as well as photographs and/or video of their processes; use the documentation to launch a discussion during Thinking and Feedback.

### **Provocation:**

- Encourage children to research other types of boats and describe what they notice.
- Point out that flags are often used on boats and that a special kind of flag, called a nautical flag, is used to communicate (see Resources).
- Encourage children to use the nautical flag alphabet (to make their names).
- Encourage children to make shape collages to represent their sailboats.

### **Differentiation/Accommodation:**

For Intro to Centers, children with limited verbal skills can use a pre-programmed voice output device to answer questions about the story. (Keep in mind these will likely be closed-ended questions, as those are easiest to program into devices.) This can also be used to help students answer Guiding Questions. During Centers, provide a variety of methods for children to apply adhesives to the parts of their sailboats. A visual schedule with the steps of putting the boat together may also be helpful.