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Name: \_\_\_\_\_

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### Camp GPB: Tie Dye

**Guiding questions:** What material is best for tie dyeing?

**Learning Target(s):** I can:

- ask questions about the properties of t-shirts that make them best for tie dyeing.
- plan and carry out an investigation about materials best for tie dyeing.
- construct an argument about the best material for tie dyeing.

**Engage:** What do you notice? Make observations about each of the shirts.

 Polyester T-Shirt 	 Cotton T-Shirt 
How does it feel?	How does it feel?
How much does it weigh?	How much does it weigh?
Other observations:	Other observations:

**What are you wondering?** Ask questions about the two types of materials used to make the t-shirts.





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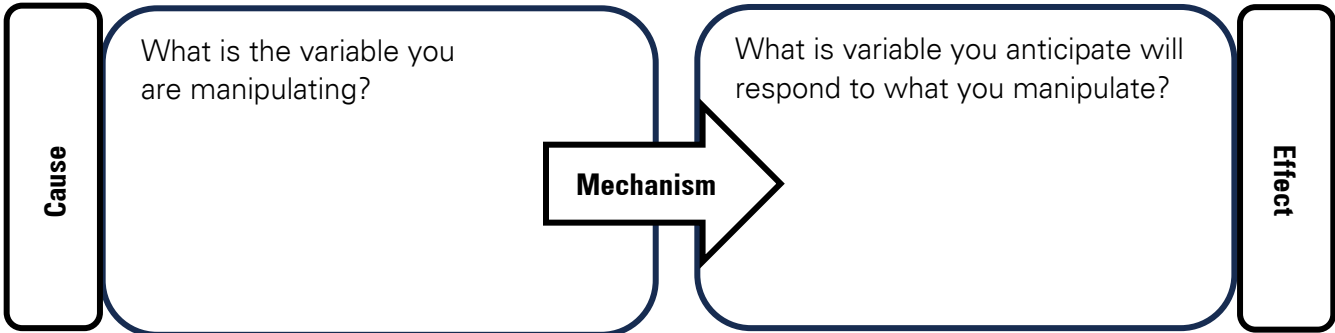
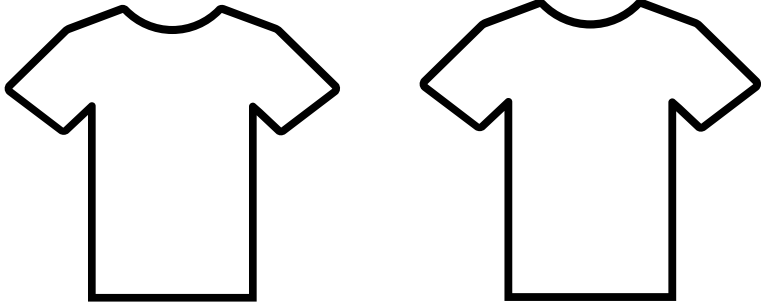
**Make a prediction.** Which shirt do you think would be best for tie dyeing? Why do you think this?

 Prediction	I think the t-shirt made of _____ will be better for tie dyeing.
 Reasoning	Reason 1: _____ Reason 2: _____

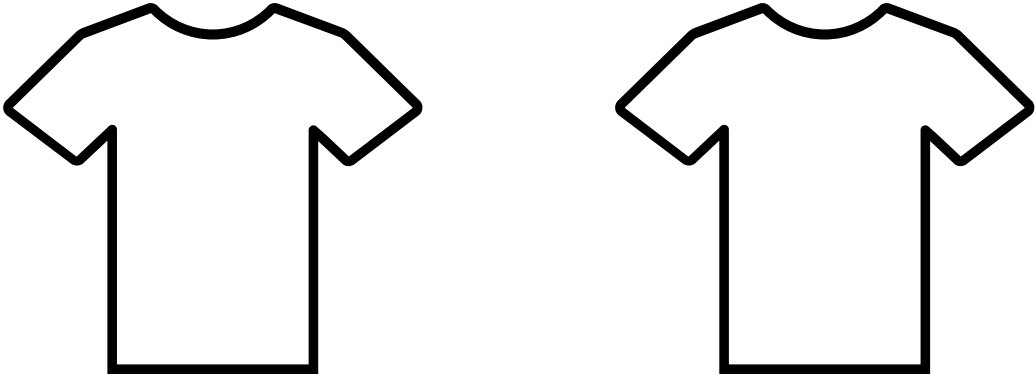
**Explore:** How could you investigate which t-shirt is best for tie-dye? Use Ashlyn's demonstration on Camp GPB or [these instructions](#) to gather information about how an investigation could be set up.

Identify the Investigation question. 

Sketch and label the investigation set-up.



Record the outcomes.



**Explore:** What are the properties of the t-shirts like that may have resulted in these outcomes?

**Gather and evaluate** information from the chart and other online resources that helps to explain the tie dye results.

Polyester	Cotton
<ul style="list-style-type: none"><li>• Dries quickly</li><li>• Durable</li><li>• Long lasting</li><li>• Synthetic</li><li>• Resists shrinking</li><li>• _____</li><li>• _____</li><li>• _____</li><li>• _____</li><li>• _____</li><li>• _____</li></ul>	<ul style="list-style-type: none"><li>• Long drying time</li><li>• Soft</li><li>• Breathable</li><li>• Biodegradable</li><li>• Shrinks when washed</li><li>• _____</li><li>• _____</li><li>• _____</li><li>• _____</li><li>• _____</li><li>• _____</li></ul>

**Explain:** Which material is best for tie dying? Construct an argument to support your decision. Use evidence from your own investigation and/or watching Ashlyn’s investigation on Camp GPB.

EVIDENCE	EVIDENCE	EVIDENCE
CLAIM		