

SQUISHY SCIENCE

SAMPLE

TEACHER GUIDE

WONDER



PLANNING

Here's a suggested schedule for this kit! The activities should be completed in order, but you can choose when the lessons take place over time.

ACTIVITY INFORMATION	SECTION(S)	TIME REQUIRED	DAY/ LESSON
ACTIVITY 1: OOH, IT'S OOBLECK! Make your own oobleck. Total time: 1 h	<input type="checkbox"/> Make Oobleck	30 minutes	Day 1
	<input type="checkbox"/> Just a Little Research	30 minutes	Day 2
ACTIVITY 2: WHAT'S GOING ON HERE? Experiment to discover the states of matter. Total time: 1 h	<input type="checkbox"/> Solids, Liquids, and Gases	30 minutes	Day 3
	<input type="checkbox"/> States of Matter	30 minutes	Day 4
ACTIVITY 3: OOBLECK AND THE FIVE SENSES Discover how the five senses observe objects. Total time: 45 min	<input type="checkbox"/> Physical Properties of Matter	30 minutes	Day 5
	<input type="checkbox"/> Grab Your Oobleck		
ACTIVITY 4: CORNSTARCH CAN DO WHAT? Create and compare slimes. Total time: 1 h	<input type="checkbox"/> Choosing the Material with the Right Properties	30 minutes	Day 6
	<input type="checkbox"/>		

SAMPLE

Full schedule available with purchase

? **Question 2: Write down 3 questions you have about oobleck.**

Answer: Have them write down three questions they have about the material. There are no wrong questions, but you can lead them toward writing good scientific questions, which are 1) about the natural world, 2) testable, and 3) repeatable.

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WHAT'S GOING ON HERE?

In this activity, students will learn about what makes oobleck so unique.

✓ **LEARNING GOALS:**

I can describe and classify materials based on their physical properties.

SOLIDS, LIQUIDS, AND GASES

CONTENT

- In this part, you and your student will be reading and answering questions together, as well as doing some simple, short hands-on activities along the way.
- Technically, there are five, not three, states of matter. They include solid, liquid, gas, plasma, and Bose-Einstein (BE) condensates. Plasma and BE condensates are not generally included in instruction at this age level because of their relative rarity.

MULTIPLE AGES AND ABILITIES:

If you're working with multiple students, you can have each student do one of the three parts of this section. This allows all students to be hands-on with the material.

If you have a student who doesn't enjoy certain textures, you can always do the experiments for them while they observe. Or, have another student do the hands-on portion, while they observe and answer questions.

? **Question 1a: Why did you need the cup to hold water? What would have happened without the cup?**

Answer: The student will likely say the water would have spilled or it wouldn't have stayed together.

? **Question 1b: What are two more examples of liquids?**

Answer: The student might say soda, coffee, bathwater, etc. as examples.

How to Help: *If they list a pourable solid (like sand) ask them if there are differences between those solids and the liquids mentioned so far.*

? **Question 2a: Does it take the same shape as the container?**

Answer: The student should notice that the stir stick keeps its own shape and doesn't take the shape of the cup.

? **Question 2b: What are two more examples of solids?**

Answer: The student might say phones, plates, televisions, trees, etc. as examples.

activity

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- ? **Question 4: Now, try it with one of these by pouring from one plastic cup to another: ice cubes, building bricks, cereal, gravel, or coins. How easily does it flow?**

Answer: Answers will vary depending on which one was chosen. Generally, the smaller the particles, the better it will flow.

- ? **Question 5: How can a solid flow?**

Answer: Solids can flow if they are made of tiny pieces of solid.

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OOBLECK AND THE FIVE SENSES

In this part, you and your student will be reading and answering questions together, as well as doing some simple, short hands-on activities along the way. This activity discusses physical properties of matter and how to use the five senses to better understand matter.

activity

✓ **LEARNING GOALS:**

I can describe and classify materials based on their physical properties.

PHYSICAL PROPERTIES OF MATTER

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CONTENT

- This reading section helps your student learn about physical properties and the 5 senses.

☑ **PREPARATION AND SUPERVISION**

- You won't need any kit materials for this part, but you may provide your own chocolate bar for the discussion of properties.
- Having oobleck on hand would also be helpful (but not necessary). If you saved it, you can use it for this part. Or, you could mix up a new batch.

USE YOUR SENSES

- ? **Question 1: How does the chocolate bar look?**

Answer: Possible answers may include: brown, rectangle, not very shiny.

- ? **Question 2: How does it smell?**

Answer: Possible answers may include: sweet, maybe a little spicy.

- ? **Question 3: How does it feel?**

Answer: Possible answers may include: smooth, firm.

- ? **Question 4: How does it taste? (We don't usually taste science, but it's okay here!)**

Answer: Possible answers may include: sweet, a little bitter.



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