# **The Senses**

#### **FRAMEWORK**

- I. Scientific and Engineering Practices
- II. Cross-Cutting Concepts
- III. Physical Sciences

#### SKILLS/OBJECTIVES

- -Get to know the 5 senses
- -Understand how different stimuli can affect an individual sense

### MATERIALS

- 2 sheets: optical illusions and worksheet
- TOUCH: Tempera paint in different colors
- Sand, Flour, Ground pepper, (other ground items)
- Plain white paper
- TASTE: lemon wedges, potato chips, unsweetened cocoa, apple juice, lemonade
- Plates, cups
- SMELL: Onions, Vanilla extract, Cinnamon, vinegar, rubbing alcohol, peanut butter, peppermint extract
- SIGHT: metal spoon, metal fork, plastic spoon, little mirror
- SOUND: an "eardrum" (plastic wrap stretched tightly over a container with a pretty large opening, with some dried rice on top
- A few ways to make noises (tin cookie sheet, tuner, silverware to bang together, an instrument, a drum)

Activity #1	Touch	
Materials	o Sand, Flour,	
	Ground Pepper	
	<ul><li>White Paper</li></ul>	

- Have the kids paint with paint that has been mixed with one of the above substances
- Have them guess which substance is in which paint and discuss how the paints feel different

Activity #2	Taste
Materials	o lemon wedges, potato chips, unsweetened cocoa, apple juice, lemonade o Plates, cups

- Try the foods (only a little bit per child, remind them that it's tasting, not eating). Which one is bitter, sweet, sour, salty?
- Now, try the lemonade. Which food does it taste like the most? Why is it sweeter?
- Which taste is your favorite? Least favorite?
- Look at the taste bud diagram.

Activity #3	Smell		
Materials	0	Onions, Vanilla	
		extract,	
		Cinnamon,	
		vinegar, rubbing	
		alcohol, peanut	
		butter,	
		peppermint	
		extract	
	0		

- Put the smells in separate containers that the kids cannot see into and poke holes in the tops (put the liquid smells on cottonballs)
- Which one smells the best? Worst? Strongest? Weakest?

Activity #4	Sight
Materials	metal spoon,
	metal fork,
	plastic spoon,
	little mirror

- Find your reflection! Circle words on the sheet that do show your reflection.
- Why does the metal spoon show your reflection better than the metal fork?
- What kind of materials show your reflection better?
- Look at the optical illusions! What's going on? (You are getting conflicting sensory input)
- EXTRA: Draw what you see in the mirror!

Activity #5	Sound
Materials	o lemon wedges, potato chips, unsweetened cocoa, apple juice, lemonade o Plates, cups

- Explain sound waves and the eardrum sound waves vibrate the eardrum in much the same way that the sounds vibrate this fake eardrum
- Hold the cup, let kids take turns making different sounds near the cup and observe how different ones make the rice jump

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## **TEMPERATURE**

### DATE

WEATHER

#### THE SENSES!

\*The five senses are TOUCH, TASTE, SMELL, SIGHT, and SOUND\*

## 1. TOUCH

Paint! Cross out the word if you have paint mixed with:

Salt

Flour

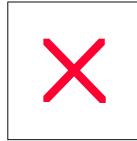
Water

Sand

Ground Pepper

## 2. TASTE

Eat! Cross out the word when you taste something:



Bitter

Sweet

Salty Sour

## 3. SMELL

Sniff! Cross out the word when you smell:

Onions

Peppermint extract

Vinegar

Vanilla extract

Peanut butter

Cinnamon

Rubbing alcohol

## 4. SIGHT

Look! Cross out objects that DO reflect:

Plastic spoon Window Table

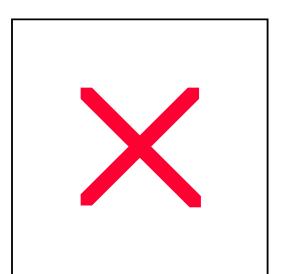
Metal spoon Wooden block Aluminum foil

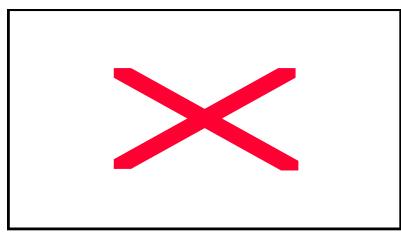
What are optical illusions?

## 5. SOUND

Listen! Find objects to use as noisemakers!







**OPTICAL ILLUSIONS!** 

