INV 4. ACTIVITY— MAKE PLAY DOUGH

Art Project

Make play dough.

Materials:

1/2 Cup	Salt
2 Tablespoons	Cream of tartar
1-1/2 Cups	All Purpose Flour
2 Tablespoons	Vegetable oil
3/4 Cup	Water
	Food coloring
	Bowls and spoons

Suggested procedure:

1. Mix the solid ingredients all together in a large bowl.
2. **SAFETY NOTE**: Boil a cup of water. Get help with this from an adult.
3. Mix the 1 cup of hot water and oil together in a different bowl.
4. Add the solid ingredients to the liquid ingredients. Mix until it comes together.
5. Let dough sit a few minutes and cool down.
6. Separate dough into different bowls if you would like different colors. Add food coloring. Knead dough. If you think you need more water add few drops slowly.

INV 4. ACTIVITY— INVESTIGATE TOOTHPASTE

Focus Question: Is toothpaste a solid or liquid?

Materials:

- Toothpaste
- Water
- Jar

Suggested procedure:

Make a T-Table in your notebook. One column's heading is Solid and the other is Liquid. Put some toothpaste on a spoon. Observe toothpaste and describe in your table. Put some toothpaste in a jar add some water and shake it up. Add more descriptive words to your table. What do you think is toothpaste a solid or a liquid? What more can you do to further investigate?

INV 4. ACTIVITY— CHANGING STATES OF MATTER

- **Observe ice melting**

Make two large bricks of ice by freezing water in two clean quart or half-gallon milk or juice cartoons. When the bricks of ice are solid, cut away the carton and put each brick in a large bowl.

Ask your child to predict

- what will happen when hot water is poured over one block of ice.
- what will happen when cold water is poured over the other block.

Have them test, observe, and discuss the results.

You could also do this investigation on a smaller scale, using individual ice cubes.

- **Observe water freezing**

Fill plastic soft-drink bottles with different amounts of water. Mark the water levels with a permanent marker. Place the caps on loosely and put the bottles in the freezer until they have completely frozen. Have students observe the level of the ice after freezing.

Once they have gained experience with water, they can predict the results of freezing other liquids. Will the levels go up, go down, or stay the same?

INV 4. ACTIVITY—COOKING AND ART EXTENSIONS

- **Have a Tea Time Break**

Focus Question: What solids and liquid are used to make tea?

Make and enjoy some tea with a family member.

SAFETY NOTE: Ask an adult to boil the water for the tea.

- What kind of tea did you have?
- Did you use a tea bag or a loose leaf?
- How long did you leave your tea in the hot water?
- What is the difference of leaving the tea shorter or longer in the water?
- What is the color of your tea?

Predict what color your tea would be if you left your tea overnight.

Draw a picture and describe your tea in your notebook. Describe what solids and liquid you used to make tea.

- **Make beverages**

Have students mix powdered drinks or chocolate milk. Let students describe in pictures and words the solids and liquids that are used and what happens when they are mixed with and without stirring.

- **Mix colors and media**

Explore liquid-liquid mixtures by letting students discover what colors result from mixtures of two colors of paint. Have students record each color they choose and its resulting color combination.

Use oil-based pastels or crayons to make full-page drawings. Instruct them to leave many spaces uncolored. Have students wash over their drawings with watercolor paints.