

INSTANT GUMDROPS

PURPOSE: Students will observe the changing of powdered gelatin into a liquid suspended in a solid by adding water.

MATERIALS

Book Topic: gelatin, suspension of materials in liquids, flavored gelatin dessert powder.

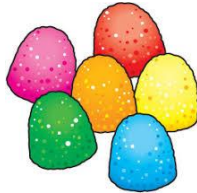
Small dish

Eye dropper

water

Fork

Magnifying glass

**PROCEDURE:**

1. Pour flavored gelatin powder into a small dish until the gelatin is an inch deep.
2. Put one drop of water with the eye dropper in the center of the gelatin.
3. Wait until the water disappears into the gelatin.
4. Add a second drop of water to the same spot: wait until it disappears.
5. Continue until you have placed six drops of water on the same spot in the gelatin.
6. Place a fork under the spot, and gently lift the “gumdrop”.
7. Observe the “gumdrop” and observe the center.
8. Have the family/friend use the gelatin and the “gumdrop” to make a gelatin dessert for all to enjoy.

HOW IT WORKS: The gelatin mixed with sugar and flavoring has an unusual property of swelling and holding water within a network of protein fibers. The “gumdrop” you made is really a liquid suspended in a solid. Gumdrops that we buy can be made of sugar, corn syrup, and gelatin.

WRITING PROMPT

You have just learned how to make “gumdrops” using gelatin and water.

Think about how you could use this process to create new and unusual “gumdrop” flavors.

Write a creative advertisement that would encourage people to buy your amazing “gumdrops.”



Parent Signature: _____

FAMILY SCIENCE PROJECT

Date: _____

Name: _____

Teacher: _____



Hypothesis (What do you think will happen?)

Date/Observation:

Conclusion: (What you learned or discovered):

*(*You may continue your observation on another sheet. You may want to create a graph to record your data.)*

For the reading portion of Family Science, you may choose to read a book or an article, OR you may use the Internet in order to find some background information concerning this Family Science Project. If you read a book or an article, please include the complete title and author. If instead you looked up the information on the Internet, please include the complete website.

We read the following book, **OR** researched the information on the Internet:

Book Title: _____ Author: _____

Internet-Complete Website _____

Writing Prompt (minimum 5 sentences)
