

*Science Project Title:*

**Gumtastic**

Question:

*What materials  
make gummy bears  
grow?*

## **Materials Needed:**

***12 Gummy bear***

***10 oz Vinegar***

***6 spoon full Salt***

***Half a bottle of Water***

***6 Cups***

Group Hypothesis:

*We think that the gummy bears in water vinegar and salt will grow best.*

## Directions of Experiment:

*Step 1 Gather supplies.*

*Step 2 Mix gummy bear in salt water and vinegar in a cup.*

*Step 3 Print it on paper.*

*Step 4 Glue the pictures down on the trifold.*

*Step 5 try different mixes.*

*Step 6 wait 24 hour.*

*Step 7 measure how much the gummy bear has grown.*



# Photo of Conducting Experiment:



Results Photo:



*Day one observation*

*Day 1: None of the  
gummy bears have grown  
had shrunk today.*

# *Day two observation*

*Day 2: One of the gummy bears  
grewed really one also shrinked  
and one got bigger and one got  
fatter.*

# *Day three observation*

*Day 3:  $\frac{2}{3}$  of the gummy bears dissolve the gummy bears that were really big dissolved the gummy bears that survived had water salt vinegar and gummy bears the second of the dissolve gummy bear*

*Did not totally dissolve the gummy bear but it turn the gummy bears into jelly*

*Day four observation*

*Day 4: The gummy that survived is getting smaller but the two that dissolved still dissolve.*

# Results:

**Our hypothesis was incorrect because  $\frac{2}{3}$  of the gummy bears dissolved. But  $\frac{1}{3}$  shrunk a little bit another  $\frac{1}{3}$  turned into jelly the last  $\frac{1}{3}$  dissolved completely and color the water orange. From our information we can make gummy bears grow and shrink with the right ingredients. Finally, after three days was  $\frac{2}{3}$  of the gummy bears dissolved.**

# *Summary:*

**This project will help the real world by helping food companies to see what food types can interact with different liquid. Also, it could help companies get more money from bigger gummy bears with less gummies. We wanted to do this because we wanted to see the change in size of the gummy bears. We also wanted to see what ingredients made a gummy bear change size.**