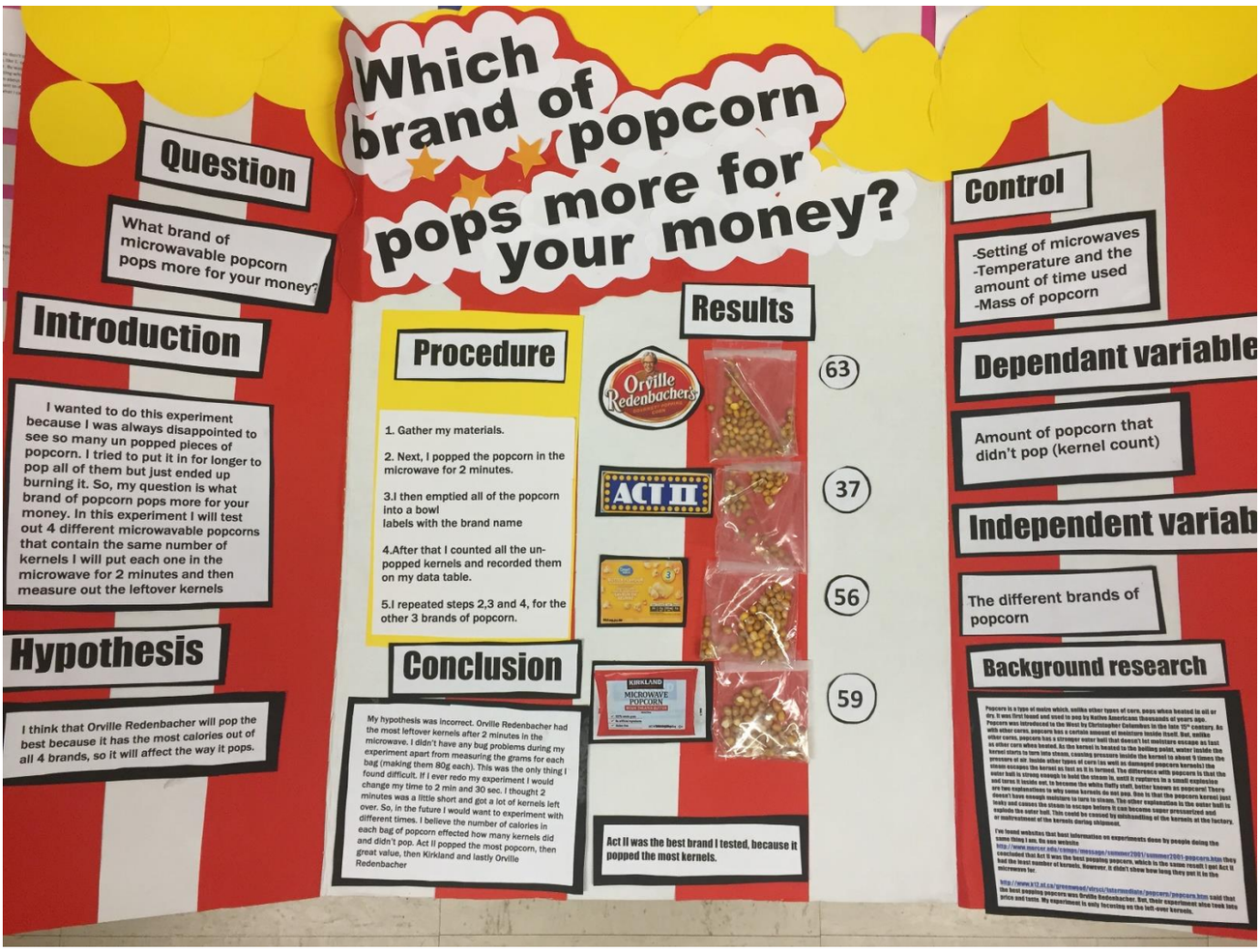
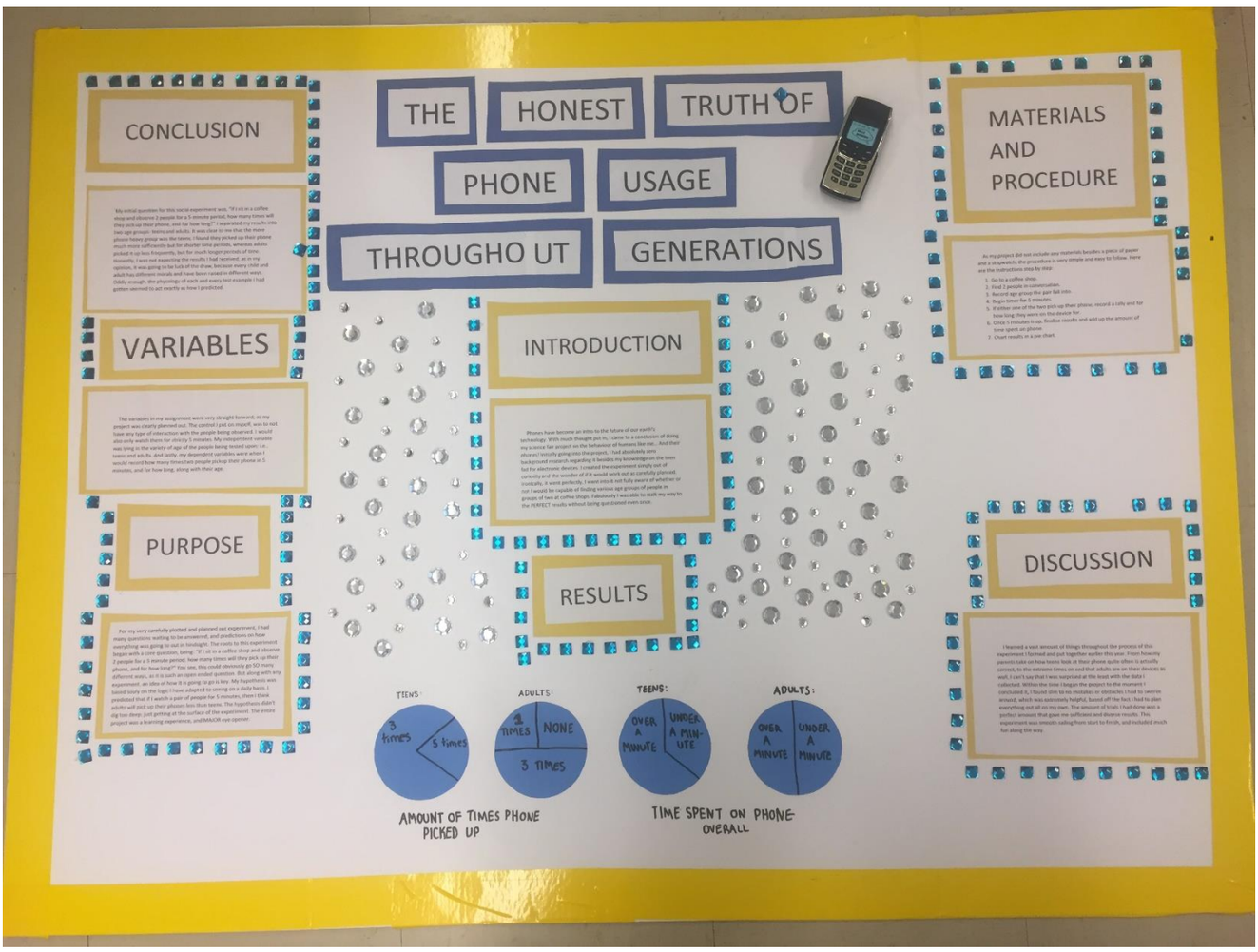
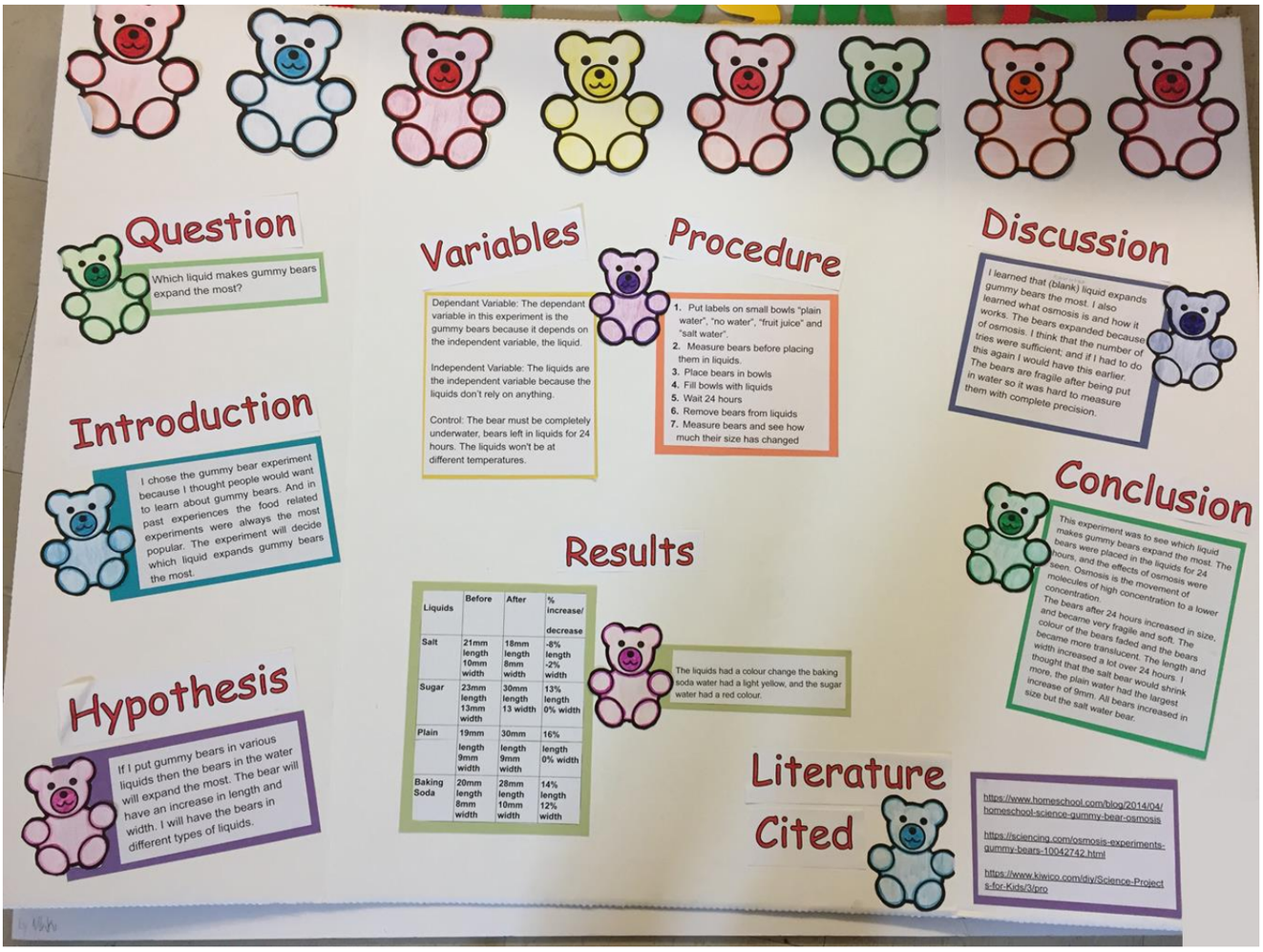

Which brand of popcorn pops more for your money?
Question
What brand of microwavable popcorn pops more for your money?
Introduction
I wanted to do this experiment because I was always disappointed to see so many un popped pieces of popcorn. I tried to put it in for longer to pop all of them but just ended up burning it. So, my question is what brand of popcorn pops more for your money. In this experiment I will test out 4 different microwavable popcorns that contain the same number of kernels I will put each one in the microwave for 2 minutes and then measure out the leftover kernels
Hypothesis
I think that Orville Redenbacher will pop the best because it has the most calories out of all 4 brands, so it will affect the way it pops.
Procedure
1. Gather my materials.
2. Next, I popped the popcorn in the microwave for 2 minutes.
3.I then emptied all of the popcorn into a bowl
labels with the brand name
4.After that I counted all the un-popped kernels and recorded them on my data table.
5.I repeated steps 2,3 and 4, for the other 3 brands of popcorn.
Conclusion
My hypothesis was incorrect. Orville Redenbacher had the most leftover kernels after 2 minutes in the microwave. I didn't have any bug problems during my experiment apart from measuring the grams for each bag (making them 80g each). This was the only thing I found difficult. If I ever redo my experiment I would change my time to 2 min and 30 sec. I thought 2 minutes was a little short and got a lot of kernels left over. So, in the future I would want to experiment with different times. I believe the number of calories in each bag of popcorn effected how many kernels did and didn't pop. Act II popped the most popcorn, then great value, then Kirkland and lastly Orville Redenbacher
Results
Orville Redenbacher's
63
ACT II
37
56
KIRKLAND MICROWAVE POPCORN
59
Act II was the best brand I tested, because it popped the most kernels.
Control
-Setting of microwaves
-Temperature and the amount of time used
-Mass of popcorn
Dependant variable
Amount of popcorn that didn't pop (kernel count)
Independent variab
The different brands of popcorn
Background research
Popcorn is a type of maize which, unlike other types of corn, pops when heated in oil or dry. It was first found and used to pop by Native Americans thousands of years ago. Popcorn was introduced to the West by Christopher Columbus in the late 15th century. As with other corns, popcorn has a certain amount of moisture inside itself. But, unlike other corns, popcorn has a stronger outer hull that doesn't let moisture escape as fast as other corn when heated. As the kernel is heated to the boiling point, water inside the kernel starts to turn into steam, causing pressure inside the kernel to about 9 times the pressure of air. Inside other types of corn (as well as damaged popcorn kernels) the steam escapes the kernel as fast as it is formed. The difference with popcorn is that the outer hull is strong enough to hold the steam in, until it ruptures in a small explosion and turns it inside out, to become the white fluffy stuff, better known as popcorn! There are two explanations to why some kernels do not pop. One is that the popcorn kernel just doesn't have enough moisture to turn to steam. The other explanation is the outer hull is leaky and causes the steam to escape before it can become super pressurized and explode the outer hull. This could be caused by mishandling of the kernels at the factory, or maltreatment of the kernels during shipment.
I've found websites that host information on experiments done by people doing the same thing I am. On one website http://www.mercer.edu/ramps/messages/summer2001/summer2001-popcorn.htm they concluded that Act II was the best popping popcorn, which is the same result I got Act II had the least number of kernels. However, it didn't show how long they put it in the microwave for.
http://www.k12.sd.us/greenwood/virsci/intermediate/popcorn/popcorn.htm said that the best popping popcorn was Orville Redenbacher. But, their experiment also took into price and taste. My experiment is only focusing on the left-over kernels.


THE HONEST TRUTH OF PHONE USAGE THROUGHO UT GENERATIONS
CONCLUSION
VARIABLES
PURPOSE
INTRODUCTION
RESULTS
MATERIALS AND PROCEDURE
DISCUSSION
TEENS:
3 times
5 times
ADULTS:
2 TIMES
NONE
3 TIMES
AMOUNT OF TIMES PHONE PICKED UP
TEENS:
OVER A MINUTE
UNDER A MINUTE
ADULTS:
OVER A MINUTE
UNDER A MINUTE
TIME SPENT ON PHONE OVERALL



The assignment below has had the text obsured, as several people have indicated they would like to do something similar.