



SCIENCE

TITLE: Popcorn Color Comparison

SUBJECT: Science

GRADE LEVEL: 5-8

MATERIAL(S): Supply of white and of yellow popcorn, hot air popper, large bowl, tablespoon, 2 quart measuring cup, plastic bag for white and yellow samples

OBJECTIVE(S): To determine which color of popcorn pops the biggest

OVERVIEW:

1. Draw out a data chart to record final results. Your control variables will be *Yellow Kernel, Samples 1, 2, & 3* and *White Kernel, Samples 1, 2 & 3*. Your results will include *Volume, Number of Unpopped Kernels, Shape and Size of Popped Kernels*.
2. Measure 1 tablespoon of Sample 1 kernels.
3. Count the kernels and record the number of kernels on the chart.
4. Turn on air popper and pop Sample 1, using the large bowl to catch the popped kernels.
5. Using the measuring cup, measure the sample of popped kernels and record the volume on the chart.
6. Count the number of popped kernels and record on the chart.
7. Count the number of unpopped kernels and record on the chart.
8. Repeat above steps with each sample of popcorn.
9. Compare the shape and size of the yellow and white popcorn.

Questions:

- 1) Which of the samples produced the largest popped pieces?
- 2) Which type of popcorn takes up more room (volume), yellow or white?
- 3) Is there a difference in shape between the two?
- 4) How could you use your classmates' results to find the average volume of popped corn?