

**WHAT COLORS ARE YOUR SKITTLES?  
PowerPoint  
Cooperative Learning Project**

**SUBMITTED BY:  
Nancy Kiernan  
East Islip High School**

**[nkiernan@eischools.org](mailto:nkiernan@eischools.org)**

Electronic Information Processing

## Microsoft PowerPoint- Skittles Project

---

**ANTICIPATORY SET:** What is in a typical bag of Skittles? How many different colors? What are the colors? Is there the same number of each color in a bag? Which color has the most?

Open a sample bag of Skittles and explain what the students will be doing with their bag. Ask students to count the numbers of each color in the Skittles bag. Compare these numbers other students' results.

**OBJECTIVE:** The students will be able to:

1. Record the numbers of each color in their own Skittles.
2. Compare their results with their partner.
3. Students will create a spreadsheet to chart the different colors found in a package of Skittles.
4. Create a PowerPoint Presentation to present to the class.

**PURPOSE:** PowerPoint is a popular spreadsheet program used today. This lesson is a fun and motivating way to learn how to create spreadsheets and charts from data you investigate and to create a meaningful presentation to present the results of your data findings.

### INPUT:

#### A. Data Collection:

Students will estimate the numbers of each color and the total number in their own bags of Skittles. Have students record their estimates on an index card.

1. Open the bag of Skittles on a sheet of paper.
2. Count and record the actual number of each color of Skittles.
3. Record the total number of each color on an index card.
4. Have students compare their results with their partner's results.
5. Have students compare their results with the Skittles claim that there should be 20% (equal distribution of each color) in each bag.

**B. Creating the Spreadsheet:**

Students will take turns and begin creating the PowerPoint presentation using the instruction sheet. See attached.

**CHECK FOR UNDERSTANDING:** Monitor groups and answer questions

**MODELING:** I will explain the method and the pairs of students will demonstrate what they have learned by utilizing their computers and reporting t back to the class.

**GUIDED PRACTICE:** Monitor to check work and give individual help to the groups if needed.

**CLOSURE:** Review the results of the various groups.

**Name:** Nancy Kiernan  
**Subject:** Advanced EIP

**Grade:** 11 & 12  
**Topic:** What Color Are Your Skittles

## **Cooperative Lesson Plan #1**

---

### **Preinstructional Decisions:**

**Rationale for using Cooperative Learning:** Students will benefit by discovering and recording data results, encouraging each other, sharing information, and learning the social skills necessary to work as a team.

**Academic Objectives:** The student will be able to create a PowerPoint presentation based on previous knowledge using the data they recorded from counting the amount of each color in a bag of Skittles.

**NYS Standard-Career & Development & Occupational Studies**  
Standard 2-Students will demonstrate how academic knowledge and skills are applied in the workplace and other settings. (Integrated Learning)  
Standard 3A-Students will demonstrate mastery of the foundation skill and Competencies essential for success in the workplace. (Universal Foundation Skills)

**Social Skills Objectives:** Students will record their data in creating a PowerPoint Presentation including specific things to include. They will take turns and constitute creative ideas to each other.

**Group Size:** 2 in each group (pairs)

**Method of Assigning Student Groups:** Teacher chooses a high-low for each pair.

### **Explaining Task & Cooperative Goal Structure:**

**Task:** Each group will create a PowerPoint Presentation that presents the results of their work. Each group will present their presentation to the class.

**Criteria for Success:** Complete task with 80% or greater.

**Positive Interdependence:** Students must work together and are responsible for input. Have students take turns reporting their results to each other. I will monitor the students to make sure they are all on task and contributing their share of the project.

**Individual Accountability:** The group will receive a grade after an assessment sheet is filled out. Each student could explain how they created their project.

**Expected Behavior:** I expect the social skills I listed previously to be demonstrated by the group.

**Group Processing:** Each student will fill out an assessment form that contains reflective questions as well as questions on how well they worked together as a group.

**Assessing:**

**Assessment of Learning:** PowerPoint Presentations will be graded

**Assessment of Group Productivity:** I will monitor groups and keep them on task.

## What Color Are Your



Open your package of Skittles. Tally the amounts of the different colors of Skittles found in your package.

1. Count and record the actual number of each color of Skittles.
2. Record the total number of each color on an index card.
3. Compare your results with your partner's results.
4. Skittles claims that there should be equal distribution of the five colors in the package. (20% of each color) Skittles also claims that there should be 13 of each color per bag.
5. Compare your results with that of Skittles claims in number 4.
6. Prepare six slides and include the following on each:

Slide 1: Include Title of Project and Group Member Names

Slide 2: Create a table of your Skittles Count. It should contain the five colors and the column headings, Bag 1, Bag 2.

Slide 3: Create a pie chart showing the percentage of each color that you found in your bag of Skittles. Group Member #1.

Slide 4: Create a pie chart showing the percentage of each color that you found in your bag of Skittles. Group Member #2.

Slide 5: Create a table that compares the average of both bags counted and the Skittles claim amount (advertised distribution=13 per color) and give the difference between the two.

Slide 6: Summary of your results. 3-4 bulleted statements.

# PowerPoint Presentation

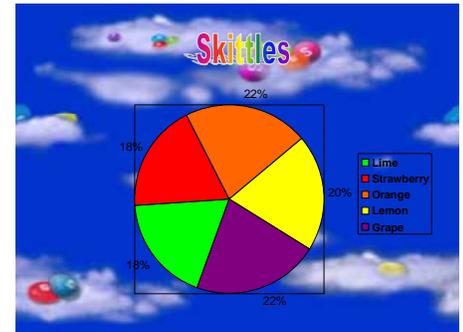


## What Color Are My Skittles?

By: Mrs. Kiernan

### Skittles Count

	Bag 1	Bag 2	Bag 3	Bag 4
Lemon	13	12	17	16
Lime	6	13	11	10
Orange	13	8	14	17
Strawberry	5	17	15	8
Grape	23	14	15	11



### Estimated to Actual

Flavors	Average per bag	Advertised distribution	Difference
Lemon	15	13	2
Lime	10	13	-3
Orange	13	13	0
Strawberry	11	13	-2
Grape	16	13	3

skittles.com

- ### Summary
- Skittles advertises that there is a 20% distribution of each color in every bag.
  - Based on the results of this experiment, this the advertised distribution is close, but not 100% accurate.
  - Based on the pie chart that was created from the results of the count, there is an average distribution of 18 – 22% of each color per bag.