***A picture containing text, clock

Description automatically generated***

This project was supported by the Cybersecurity and IT Pathways grant from the Florida Department of Education through Cyber Florida, project number 291-1231C-2C001, funding authority 84.425C-D CRRSA ACT ESSER II 84.425D & GEER II 84.425C, FAIN#: S425C210052. More information at cyberflorida.org/pathways/

**Activity**

What’s in Your Bag

MODULE 6: Spreadsheet Applications

This **activity** was written for the Florida Public School System DIGITAL INFORMATION TECHNOLOGY (8207310) course. Funded by the Cyber/IT Pathways Program, Cyber Florida, and the Florida Department of Education.

# Module 6: Spreadsheet Applications

## Activity: What’s in Your Bag

The student creates a new spreadsheet showing the distribution of colors in a bag of candy with a pie chart.

## Standards Assessed

* **06.01** Manipulate the worksheet by using the ribbon tabs, group settings, importing data/database, manipulating properties, files, and folders.
* **06.02** Create cell data and apply auto fill.
* **06.03** Format cells and worksheets (e.g., by applying and manipulating cell formats, styles, merging and splitting cells, create row and column titles, hide and unhide column titles, rows and columns, page setup options, and manipulating views/themes).
* **06.04** Create and analyze formulas and functions (e.g., apply conditional formula logic, name, and cell ranges).
* **06.05** Create and modify charts and images. (e.g., pivot tables)
* **06.08** Interpret data online graphs, pie charts, diagrams, and tables.

## Teacher Notes

Teachers can use whatever spreadsheet software is available for the students such as Microsoft Excel or other spreadsheet application compatible with .xlsx files. Use other online resources to help students learn the details of a specific product.

Any colorful candy can be used for this activity, such as M&Ms, Skittles, etc.

## Estimated Student Completion Time

* 45 minutes x 1-2 classes to complete the activity

## Activity Rubric

Consider evaluating the student’s work based on measures of quality. For example, with a maximum of 4 Points Possible, the following could be applied to the activity:

* **1 Point Earned** = ***Needs Improvement*** (the student work did not meet more than 50% of the requirements and did not follow instructions)
* **2 Points Earned** = ***Developing*** (the student met between 50% and 75% of the requirements and generally followed the instructions)
* **3 Points Earned** = ***Sufficient*** (the student met between 75% and 90% of the requirements and clearly followed instructions)
* **4 Points Earned** = ***Above Average*** (the student met > 90% of the requirements and followed all instructions)

Use the table below to make sure students cover all required elements in the assignment.

| **Required Elements** | **Possible Points** | **Points Earned** |
| --- | --- | --- |
| **Appearance**   * Recorded data |  |  |
| **Charts**   * Pie chart wedges match candy color * Shown in a new sheet * Displays all data * Includes chart title and style |  |  |
| **Total** |  |  |

# Activity: What’s in Your Bag

**Students Instructions**: Complete the following tasks using a new spreadsheet in Microsoft Excel or other spreadsheet application compatible with .xlsx files.

1. Open a blank spreadsheet.
2. Insert the following text in column A:
   1. What’s in the Bag
   2. Red
   3. Yellow
   4. Green
   5. Orange
   6. Brown
   7. Blue
3. Open your bag of candy.
4. Sort the candy by color and record your data in the spreadsheet.
5. Highlight cells A2:B7.
6. Create a 3-D Pie Chart.
7. Move the chart to a new sheet.
8. Change the Chart Style to Style 3.
9. Change the color of pie piece in the pie chart to the actual color stated. For example, the “Red” slice should be the color red.
10. Change the Chart Title to “What’s in Your Bag?”
11. Save your spreadsheet based on the teacher’s instructions.