

Unplugged K - 8 Computer Science Enrichment Activities

Week 3 | Kitchen Sort | [K-2 Link to files](#) [3-8 Link to files](#)

Big Idea: Recognizing patterns and grouping objects are important skills for all age groups. They're also key parts of the Computer Science concept called abstraction. When using this activity with older students you can make connections to data science and data analysis. How we collect and sort data is extremely important in the story that our data will tell. Have fun!

Instructions: Read the directions for your grade level. It explains how many minutes per day you should complete Computer Science work for your grade level, along with the suggested computer websites on Ms. Sisney's class website. Click the **link to the files** above for your assignments. Make a copy of the files in order to type, write, or draw on the documents.

<p>K - 2</p> <p>Time: 30 - 45 minutes</p> <ul style="list-style-type: none">• MWF 10 minutes per day• T/Th 15 minutes per day• 1-day 30 minute block <p>Modifications: Students can draw (rather than write) items and categories</p>	<p>Standards</p> <p>CSTA</p> <p>K-2 1A-DA-06 Collect and represent data in various visual formats/Abstraction</p> <p>Common Core Mathematics</p> <p>K <i>Goal 8</i> Identify and describe common attributes, patterns, and relationships in objects.</p> <p>1 - 2 <i>CCSS. Math. Practice.MP7</i> Look for and make sure of structure.</p>
<p>3 - 5</p> <p>Time: 60 - 75 minutes</p> <ul style="list-style-type: none">• MWF 20 minutes per day• T/Th 30 minutes per day• 1-day 60 minute block	<p>Standards</p> <p>CSTA</p> <p>1B-DA-07 Use data to highlight or propose cause-and-effect relationships, predict outcomes, or communicate an idea.</p> <p>Abstraction/Communication</p> <p>Common Core Mathematics</p>

<p>Modifications: Differentiate by changing the number of items per category and the number of categories required.</p>	<p>CCSS. <i>Math. Practice.MP7</i> Look for and make sure of structure.</p>
<p>6 - 8</p> <p>Time: 90 minutes</p> <ul style="list-style-type: none"> ● MWF 30 minutes per day. ● T/Th 45 minutes per day. ● 1-day 90 minute block <p>Modifications: Differentiate by changing the number of items per category and the number of categories required. Have students draw a graph to visualize something from the data.</p>	<p>Standards</p> <p>CSTA</p> <p>2-DA-07 Represent data using multiple encoding schemes/Abstraction</p> <p>Common Core Mathematics</p> <p>CCSS. <i>Math. Practice.MP7</i> Look for and make sure of structure.</p>