

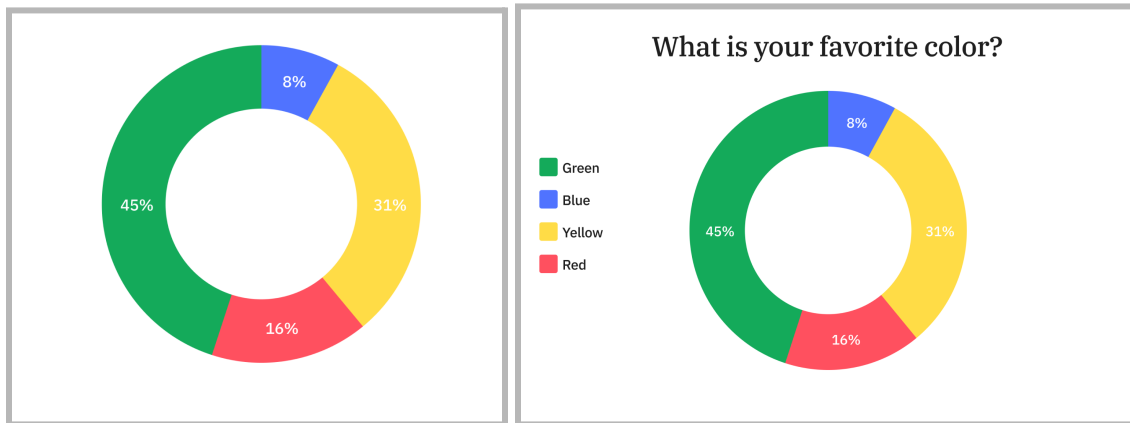
Building Up Foundational Skills_Charts & Graphs

1) Reading Charts & Graphs

Do you students skill over the information around the chart or graph that is the most important to understanding the context of the data? Get rid of it!

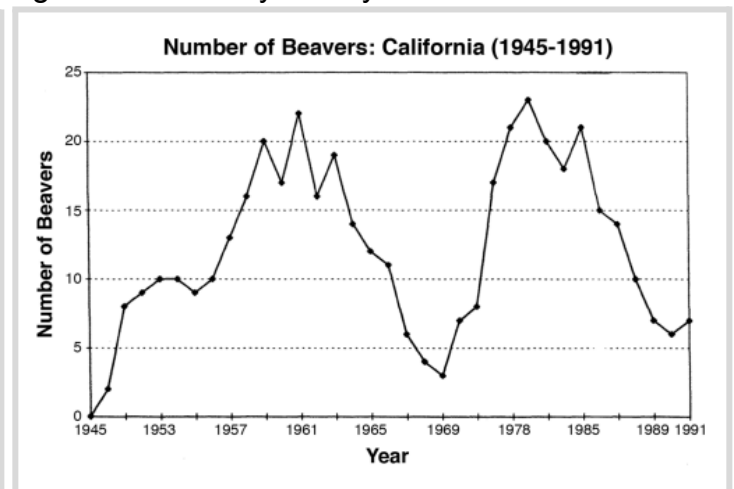
Strategy 1: Remove the title and ask students to infer/postulate the topic of the graph/chart

- 1) What could the percentages on this chart be representing? How does this demonstrate the importance of reading all of the information on a chart?



Strategy 2: Remove the data or numbers from the chart or graph leaving ONLY the title, scale, source, etc.

- 1) Without any data, what can you conclude about what information this graph might be able to provide?
 - a) Generate a list of questions you have based on the information that the data could tell you?
- 2) Now look at the data on the chart. Find as many answers to your questions as possible. Were there any questions you couldn't answer using the data? Why or why not.

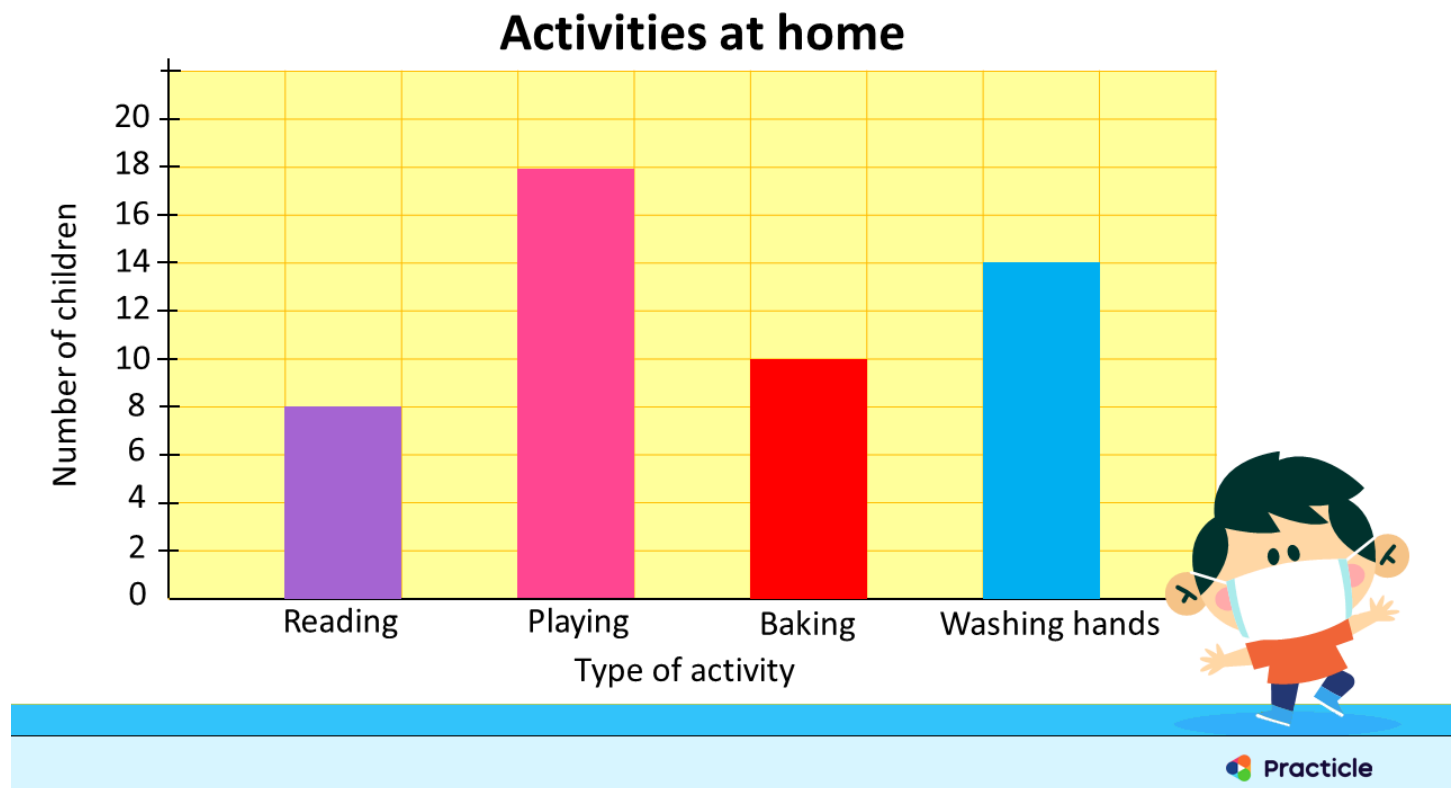


Strategy 3: Remove the science content to focus on the skill of reading charts and graphs. This reduces cognitive load and makes it easier for students to practice the skill without the added complexity of scientific concepts.

Say you wanted to find out what your friends did at home during covid. After carrying out a survey, you might decide to put your results into a table like this:

Reading	Playing	Baking	Washing hands
8	18	10	14

Well, that's one way of showing the data that you've collected. Another way would be to present the results in a more visual style using a bar graph. If you've done that, you'll probably have a bar graph that looks like this:



As you can see, this bar graph has a few rectangular bars and there are many things that we can infer by comparing the bars. Let's see what information we can tell by learning how to read this bar graph, ok?

