

Name(s) _____ Period _____ Date _____

Activity Guide - Apps with Processing



Key Vocabulary:

Processing - The thinking work computers do to turn input into output.

Apps and Processing

For each app, choose one type of processing it uses and explain how it helps turn the input into output.

Note for teachers: Student will only circle one type of processing, but some apps have more than one correct answer.

App Name	Type of processing	How does it help turn input into output?
Is It Your Birthday?	<div>if/then</div> <div>counting</div> <div>finding a match</div> <div>comparing</div>	<p>If your birthday is today, then it shows the happy birthday message.</p> <p>It compares your birthday and today.</p>
National Park Quiz	<div>if/then</div> <div>counting</div> <div>finding a match</div> <div>comparing</div>	<p>If the answer is right, then it shows Correct! If the answer is wrong, then it shows Sorry!</p> <p>It compares your choice to the right answer.</p>
How many countries...?	<div>if/then</div> <div>counting</div> <div>finding a match</div> <div>comparing</div>	<p>It counts the number of countries that matched the question.</p> <p>It matches the countries to the question.</p>
My Famous Birthday	<div>if/then</div> <div>counting</div> <div>finding a match</div> <div>comparing</div>	<p>Matches your birthday month and day and the birthday month and day of a writer.</p>
Stamp Notebook	<div>if/then</div> <div>counting</div> <div>finding a match</div> <div>comparing</div>	<p>If you click on the stamp at the bottom more than once, then it changes color.</p> <p>If you click on the notebook, then it stamps the shape and color you chose at the bottom.</p> <p>If you click on a stamp and pick a color, then the color stays the same when you click on other stamps at the bottom.</p>

More Processing

For each app, choose **two** types of processing it uses and explain how they help turn the input into output.

Note for teachers: Student will only circle two types of processing, but some apps have more than two correct answers.

App Name	Type of processing (choose two)	How do they help turn input into output?
Fastest Finger	if/then counting finding a match comparing	It counts how many times each key is clicked. It compares the number of times each key is clicked.
Guess the Number	if/then counting finding a match comparing	If your guess is wrong, then you get a message. It counts how many tries you have left. It matches your guess to the right number. It compares your guess to the right number.
Where should I live?	if/then counting finding a match comparing	It counts matches for each place. It matches your answer to the questions to places with the same things. It compares matches for each place and shows the one with the highest number of matches.

Your App Idea

With your partner, think of a new app idea. What inputs does it need? What outputs? What types of processing does it use to change the input to output?

App idea	Find an App - helps you find a new app to try out
Inputs	Answer questions like Which do you like best? science, art, music, reading.
Outputs	The name of an app to try out.
Types of processing	Counting, finding a match, comparing
How processing turns helps turn input to output	It matches what you like with things apps offer. It counts the matches, compares them, and shows you the app with the most matches.