

**AP CSP Python with Robots
Functions with Parameters Activity Guide**

Name:

Warm Up

What do you remember about functions?

Answers will vary

Examples and Challenge

What is a parameter?

Information that is needed by a function.

What is an argument?

The information given to a function.

What is the relationship between a parameter and an argument?

In a function call, the value of the argument is passed to a parameter. It is then used as a local variable in the function.

Use this space to take additional notes about functions for example #1.

Use this space to take notes about functions for example #2.

Use this space to take notes about functions for the challenge.

Wrap-Up

In your own words, what is a parameter?

Answers should be similar to the one above.

Give an example of a parameter:

```
def flash_LED(num, delay)
Num and delay are parameters.
```

In your own words, what is an argument?

Answers should be similar to the one above.

Give an example of an argument:

```
flash_LED(2, 2.5)
2 and 2.5 are arguments.
```

What is an advantage of using parameters and arguments with functions?

Parameters and arguments allow one function to be used for many different cases, like one function for any LED or one function for a variable motor speed.

Submit the modified programs to the teacher.