FMT: POTENTIOMETER
LESSON 5

Name: _____ **Date:_____**

Vocabulary: potentiometer, analog, voltage,

1. Identify the potentiometer on the FMT to the right.

Copy and upload the sketch provided to the FMT.

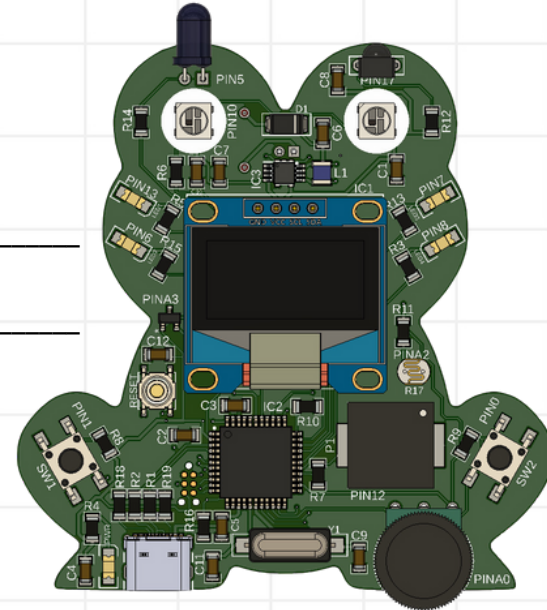2. List two scenarios where a potentiometer might be used.

_____

_____

3. What does the "A" in the variable declaration mean?

_____

_____

4. Explain the voltage value assigned to a pin? How does the value change as they voltage changes?

_____

_____

5. What happens within the Serial port when you rotate the knob of the potentiometer?

_____

6. Explain the modification you made to the sketch. What was the outcome?

_____

_____

7. You've now completed six lessons for the Frog Microcontroller Trainer. What is something you have learned?

_____

_____

FMT: POTENTIOMETER

Name: _____ **Date:**_____

Vocabulary: potentiometer, analog, voltage,

1. Identify the potentiometer on the FMT to the right.

Copy and upload the sketch provided to the FMT.

2. List two scenarios where a potentiometer might be used.

_____

Adjusting volume on speakers or controlling brightness of lights

_____

3. What does the "A" in the variable declaration mean?

_____

The pin we are connecting to is an analog pin

_____

4. Explain the voltage value assigned to a pin? How does the value change as they voltage changes?

The value assigned represents the voltage at that pin. This value is between 0-1023.
_____

5v is 1023. 2.5v is 512 and 0v is 0.
_____

5. What happens within the Serial port when you rotate the knob of the potentiometer?

You should see the Serial port range of values change as the potentiometer is rotated.
_____

6. Explain the modification you made to the sketch. What was the outcome?

Answers may vary. Possible answer is to assign an LED to light up when the potentiometer
_____

reaches a certain value.
_____

7. You've now completed six lessons for the Frog Microcontroller Trainer. What is something you have learned?

_____

Answers may vary.