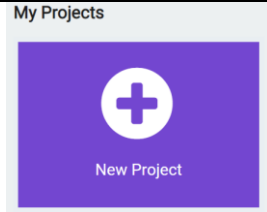

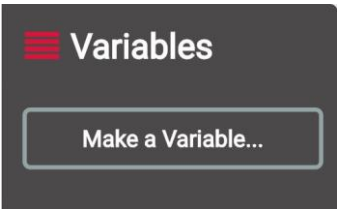






Goal: To code a micro:bit so that it functions as a thermometer.

Instructions	Blocks
<p>Get onto the internet and go to: https://makecode.microbit.org/. Click on the <i>New Project</i> button.</p> <p>Delete the <i>on start</i> block and the <i>forever</i> blocks.</p>	
<p>Under <i>Input</i>, select the <i>on button A pressed</i> block.</p>	
<p>Under <i>Variables</i>, click on <i>Make a Variable</i></p>	
<p>Name the variable <i>microbitTemp</i> and click on the <i>Ok</i> button.</p>	
<p>Under <i>Variables</i>, select the <i>set microbitTemp to</i> block and snap it into place inside the <i>on button A pressed</i> block.</p>	
<p>In the pulldown menu, make sure that <i>microbitTemp</i> is selected.</p>	


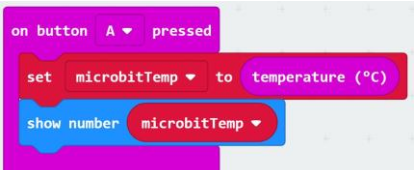

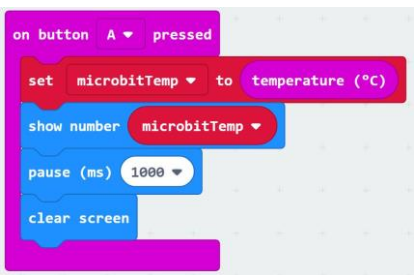


Living Space

Minds-On 3 Guided Materials

Code a micro:bit Thermometer



<p>Under <i>Input</i>, select the <i>temperature (°C)</i> sensor block and place it where the zero was in the set <i>microbitTemp</i> to block.</p> <p>This will set the <i>microbitTemp</i> variable to the ambient (surrounding) temperature.</p>	
<p>Under <i>Basic</i>, select a <i>show number</i> block. Place it beneath the set <i>microbitTemp</i> to block</p>	
<p>Under <i>Variables</i>, select the <i>microbitTemp</i> block and place it where the zero is beside <i>show number</i>.</p> <p>This will display the temperature value on the LED display.</p>	
<p>A <i>pause</i> and <i>clear screen</i> block can be inserted so that the temperature value is not constantly displayed:</p> <p>Under <i>Basic</i>, select a <i>pause (ms)</i> block and place it beneath the <i>show number</i> block. Adjust the value to around 1000 to 1500 ms for a short pause before adding the <i>clear screen</i> block.</p>	
<p>The <i>clear screen</i> block can be found under <i>Basic</i> and then <i>More....</i> Place this beneath the <i>pause (ms)</i> block.</p> <p>You now have a working micro:bit thermometer! Be sure to test out your program.</p>	
<p>Save your work and upload the code to the micro:bit</p>	

