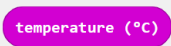
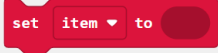
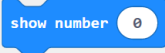




End of project lesson

Y4: Temperature

Skill: To measure the temperature on the Micro:bit

Pupils will learn how to get the ambient temperature (degree Celsius °C) The temperature is inferred from the surface temperature of the various chips on the Micro:bit. We will be learning how to get the temperature using on shake, local variables, as well as simple commands such as show number. The following blocks will be used in this final task:

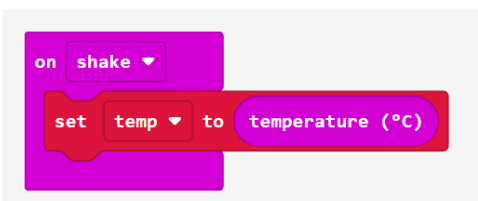
		
temperature Gets the temperature in Celsius degrees (°C).	variable declaration Assign a value to a named variable.	showNumber Scroll a number on the screen.
		
showString Display text on the display, one character at a time.	onGesture Do something when when a gesture is done (like shaking the micro:bit).	

Basic Activity

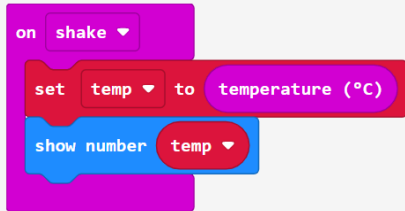
We want to display the temperature on shake. In order to do so, we need to register the event on shakes that will execute whenever the user shakes the Micro:bit. Create the following command:



Let's measure the temperature and then store in it a variable **temp**. The temperature is measured in **Celsius**, so a value of **29** is equivalent to 29 degrees Celsius.



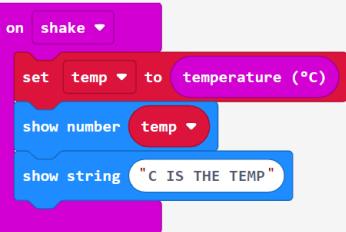
Show the value of **temp** on the screen.



Great job! 😊

Challenge 1

Let's add the code to display the text **C IS THE TEMP** with a **show string** block. Modify the **show string** block to slowly display the text by an interval of **300**.



Run the code to see if it works as expected.

Challenge 2

Let's add code to display the temperature gauge image with a **show LEDs** block.