

## Temperature Sensor - Lesson 2 Formative Assessment Questions

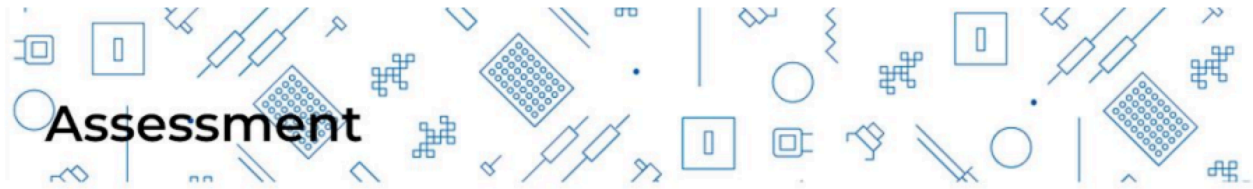
- 1) Define Temperature.
  
  
  
  
  
  
  
  
  
  
- 2) Which of the following is likely the temperature of the classroom?
  - a)  $72^{\circ}\text{F}$
  - b)  $-5^{\circ}\text{F}$
  - c)  $-5^{\circ}\text{C}$
  - d)  $72^{\circ}\text{C}$
  
  
  
  
  
  
  
  
  
  
- 3) Which of the following is likely the temperature outside during a snow day?
  - a)  $60^{\circ}\text{F}$
  - b)  $30^{\circ}\text{C}$
  - c)  $-12^{\circ}\text{C}$
  - d)  $12^{\circ}\text{C}$

### Convert the following temperatures:

- 4)  $34^{\circ}\text{C} = \underline{\hspace{1cm}}^{\circ}\text{F}$
  
- 5)  $0^{\circ}\text{F} = \underline{\hspace{1cm}}^{\circ}\text{C}$
  
- 6)  $-4^{\circ}\text{C} = \underline{\hspace{1cm}}^{\circ}\text{F}$
  
- 7)  $-345^{\circ}\text{F} = \underline{\hspace{1cm}}^{\circ}\text{C}$

### Create an inequality for the following:

- 8) A temperature that is a minimum of  $65^{\circ}\text{F}$  and a maximum of  $85^{\circ}\text{F}$
  
  
  
  
  
  
  
  
  
  
- 9) A temperature that is higher than  $40^{\circ}\text{C}$  and lower than  $60^{\circ}\text{C}$



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- 10) How would you add a fourth range in your code?
- a) Highlight a piece of code and right-click. Select “duplicate”. Change the temperature values to match the range.
  - b) Repeat all tutorial steps to create a fourth range with new values for each.
  - c) Select the “range” function and change the function name.
  - d) Create a loop to put around the function code snippet.
- 11) Why would someone use a function?
- a) To set up a series of actions.
  - b) To create a shorter code.
  - c) To make recalling the code easier.
  - d) All of the above.

### Optional Assessment questions:

- 12) What emoji would you choose for your town during the winter?
- 13) What emoji would you choose for your town during the summer?
- 14) What emoji would you choose for the planet?