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ENGI 1020

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**Prelab 1**

**Input/ Independent Variable:** Temperature Sensor

**Output/Dependent Variable:** Colour

**Mathematical equation:**

**Graph:**

**A close up of a map

Description automatically generated**

**Test Plan:**

* If temperature is 20 degrees Celsius the colour output would be blue (0.7 hue value).
* If temperature is 21 degrees Celsius the colour output would be blue (0.63 hue value).
* If temperature is 22 degrees Celsius the colour output would be dim blue (0.56).
* If temperature is 23 degrees Celsius the colour output would be dim blue (0.49 hue value).
* If temperature is 24 degrees Celsius the colour output would be transitioning from dim blue to dim red (0.42 hue value).
* If temperature is 25 degrees Celsius the colour output would be transitioning from dim blue to dim red (0.35 hue value).
* If temperature is 26 degrees Celsius the colour output would be dim red (0.28 hue value).
* If temperature is 27 degrees Celsius the colour output would be dim red (0.21 hue value).
* If temperature is 28 degrees Celsius the colour output would be dim red (0.14 hue value).
* If temperature is 29 degrees Celsius the colour output would be red (0.07 hue value).
* If temperature is 30 degrees Celsius the colour output would be red (0 hue value).