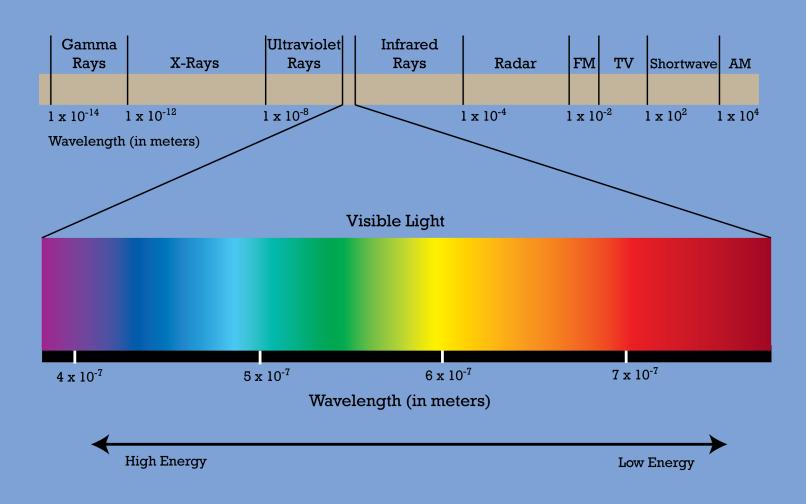


# BIOLUMINESCENCE

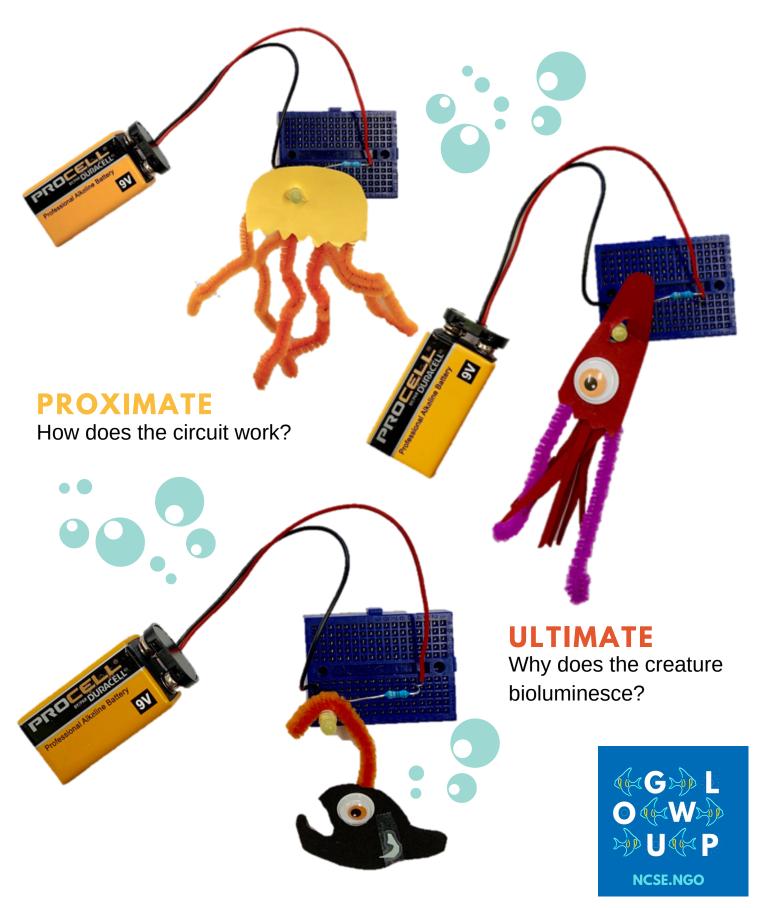


#### **GUIDING QUESTIONS**

What do you notice about red and blue light? Which light passes more quickly through the water? How does this affect bioluminescence?

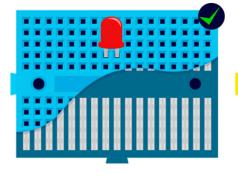


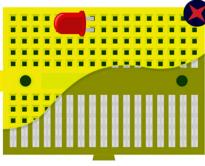
#### WHAT ARE THE PROXIMATE AND ULTIMATE CAUSES OF YOUR CREATURE'S BIOLUMINESCENCE?



## CIRCUIT MATERIALS GUIDE

### Breadboards





"The LED on the left is connected correctly, however the one on the

right will never work because both of its legs are connected together."

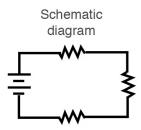
https://learn.pimoroni.com/tuto rial/

### LED Diode



Resistor

Use to control the flow of the circiut

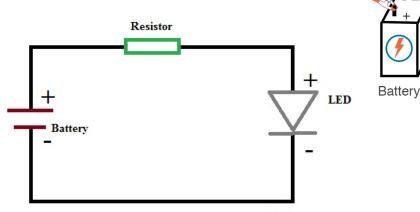


0 0 0 0 0 0 0 0

. . . . . .

. . . . . .

Real circuit using a solderless breadboard



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# **CIRCUIT BUILDING TIPS**

- Stay on the same side of the bread board
- The red wire should be on the same line as the resistor
- Match the short wire of the light with the negative (black) lead
- If it doesn't work the first time, keep testing!

