



TeachEngineering

Exploring Bioluminescence in Aquatic Animals



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Magic or Science?

Did you know that some aquatic organisms glow, flash, and blink?

Bioluminescence is light produced by a living organism caused by a chemical reaction.

Essential Questions:

- What are the conditions like in the deep ocean?
- Is there an abundance of food available?
- How have aquatic organisms adapted to these harsh conditions?



Crystal Jelly Bioluminescence

Research

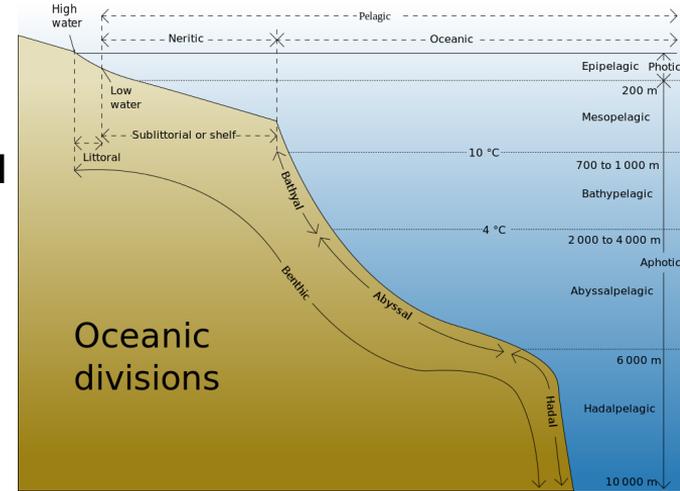
Watch the video provided. Take notes in your student packet about any data or evidence you think might be important as to why these organisms produce their own light.



Ocean Zones

How do some aquatic organisms survive intense pressure, cold, and total darkness?

The solution can be found in special adaptations, or inherited traits, that enable a wide variety of aquatic organisms to live at great depths. Bioluminescence in the form of photophores or chromatophores.



Oceanic Divisions