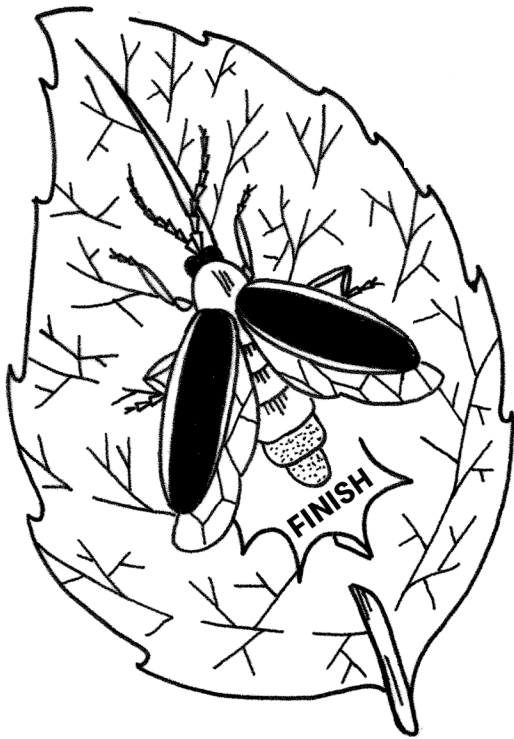


Firefly Maze

A firefly can light up when oxygen is added to the other chemicals in its light organ.

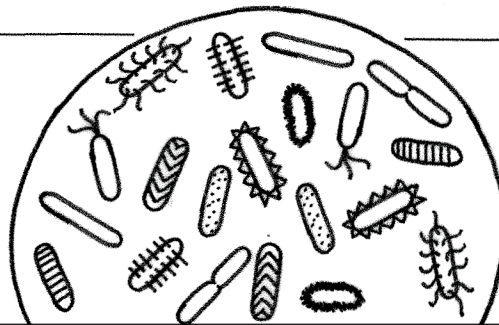
Get the oxygen to the firefly's light organ, so that it can light up!

O₂ START



EMMETT CHAPPELLE INVENTOR OF BIOLUMINESCENCE TECHNIQUES

National Inventors Hall of Fame Inductee Emmett Chappelle was a biochemist. Chappelle studied bioluminescence—an organism's ability to produce and emit light. He used this super power of nature to create bioluminescence techniques that would allow us to detect life on Mars and monitor crops here on Earth.



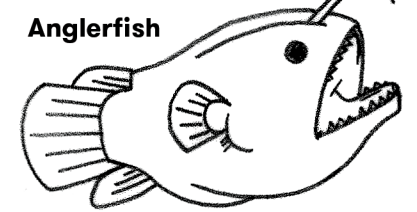
Living Light

Emmett Chappelle figured out that the number of bacteria in water could be measured by the amount of light they were giving off.

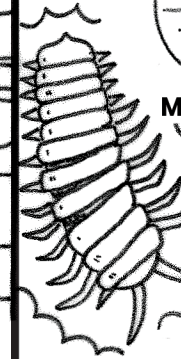
Find the 10 pairs of matching bacteria in this petri dish.

Color the Glow

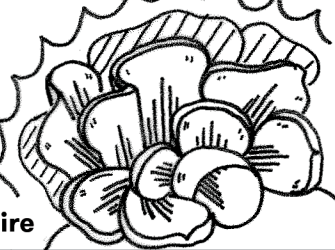
Anglerfish



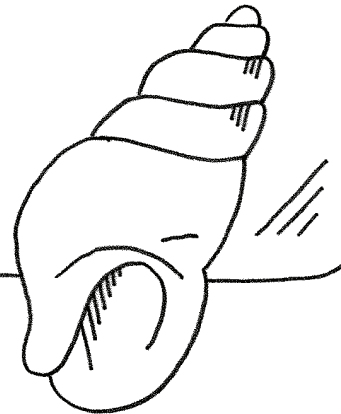
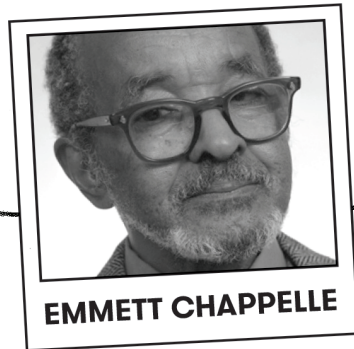
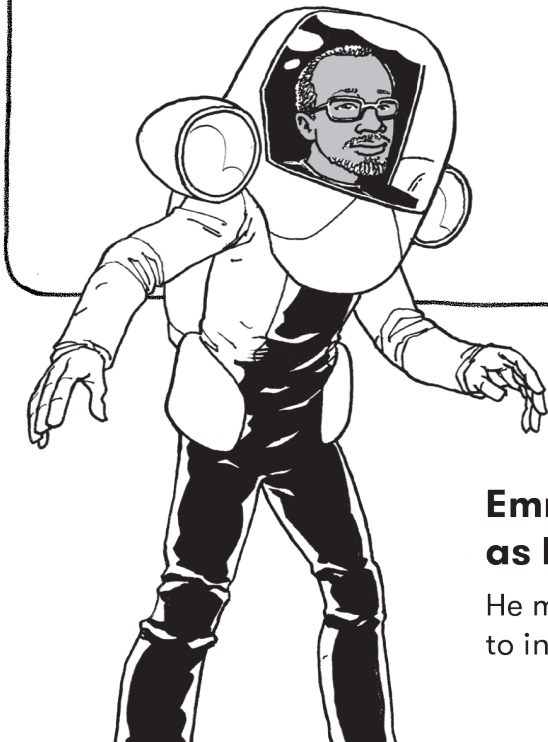
Motyxia



Foxfire



Be inspired by nature and draw a new invention prototype here!



Emmett Chappelle used nature as his teacher!

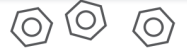
He made discoveries about nature and then used them to invent while at NASA.



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