



WATER BEAR

- Tardigrades are so small that they're about the size of a period at the end of a sentence _____.
- They can survive radiation, high pressure, and extreme temperatures
- They live in many extreme environments, like the deep ocean, hot deserts, frozen mountain tops, and volcanoes
- Fun Fact: Tardigrades are the first known animals to survive direct exposure to outer space (radiation) and revive!

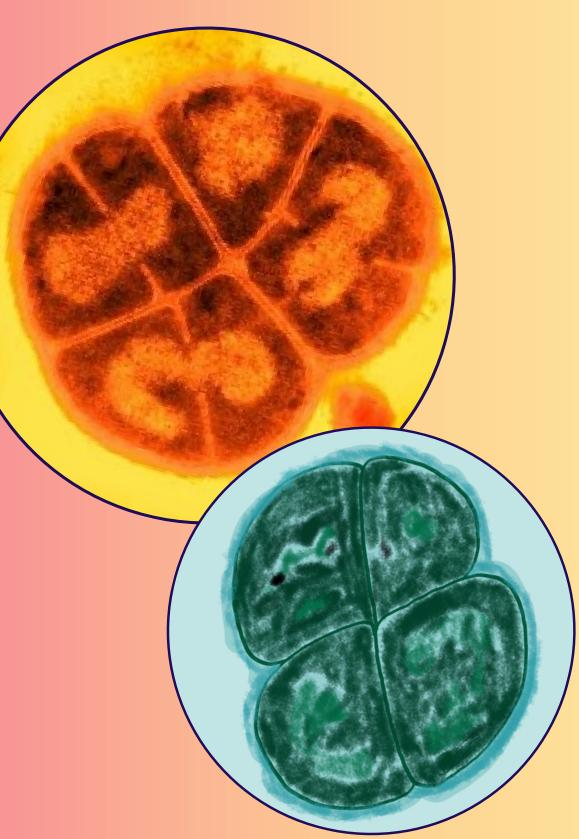






CONAN THE BACTERIUM





- Lives in extreme places, such as nuclear reactors, deserts, and outer space
- Can survive thousands of times more radiation than humans can
- It can live in very cold and low pH environments
- Fun Fact: It once survived for an entire year on the outside of the International Space Station!





SEA MONKEY

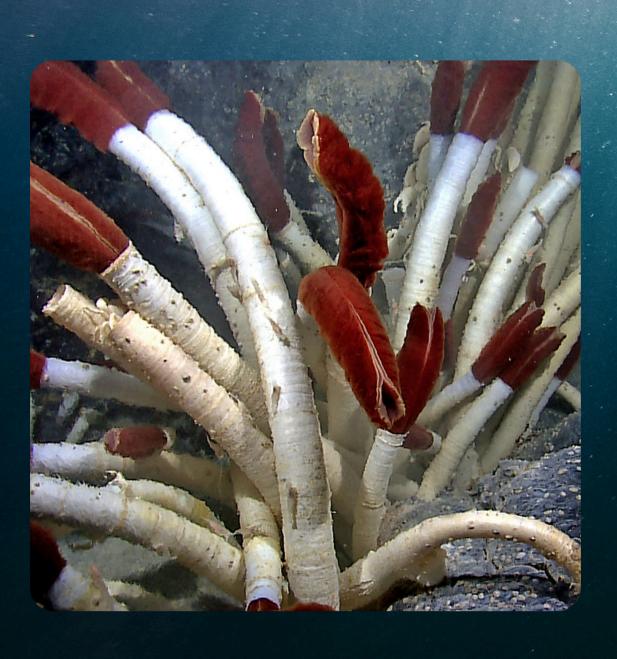


- Sea monkeys are tiny animals that live in warm salt water
- They're found in places like the Great Salt Lake in Utah
- Their eggs can survive for years in a dormant state called cryptobiosis
- Fun fact: some people keep them as pets!





GIANT TUBE WORM



- They have special bacteria inside them that make food from chemicals in underwater volcano vents
- Their red top carries oxygen safely to their bacteria friends
- They live in total darkness and can handle super hot, high pressure water where almost nothing else can live
- Fun Fact: They have no mouth or stomach!





T. AQUATICUS

Type of Bacteria

- Lives in hot springs that are around 160°F
- It was discovered in Yellowstone
 National Park hot springs
- It has a heat-proof enzyme that helps copy DNA
- Fun Fact: This organism produces a special enzyme that helped scientists create COVID-19 tests and crime scene DNA tests!





DESERT INK CAP



- It grows in sandy soil and survives with very little water
- The cap can turn into inky black goo as it gets older

• Fun Fact: It can be found right here in Arizona!







LICHENS

- Lichens are part fungus, part algae
- They grow on rocks, trees, and even sidewalks
- They can survive in very hot temperatures and low humidity
- Fun Fact: They are some of the first things to grow after a volcanic eruption!



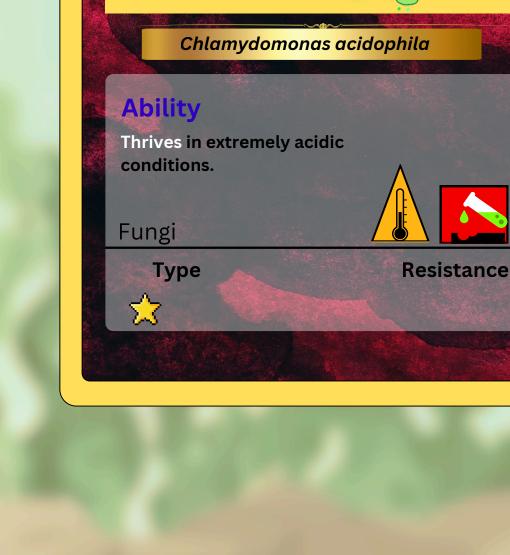






GREEN ALGAE

- These plants can live in super acidic places, like volcanic lakes and toxic water near old mines
- They make oxygen and feed lots of creatures like tiny water animals
- Fun Fact: In acidic lakes, some green algae turn red or orange by making special pigments that protect them from acid and sunlight!



Chlorophyta

A POMPEII WORM
GROWS ITS OWN FOOD
ON ITS BODY.





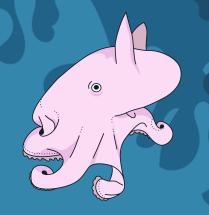


- These worms live at the bottom of the ocean near extremely hot underwater volcano vents
- They can survive extremely high pressure
- They're covered in fuzzy bacteria on their backs that keep them cool, even in boiling water
- They're among the most heattolerant animals known!





DUMBO OCTOPUS



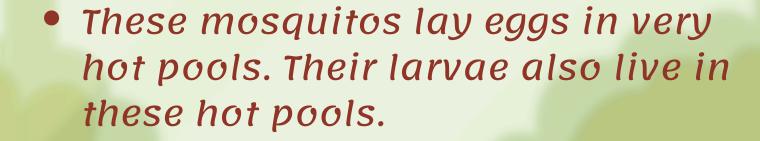
- Lives really deep in the ocean where there's high pressures and cold temperatures
- It's named after the Disney character Dumbo because it uses its big "ear" fins to swim, just like the flying elephant!
- Fun Fact: The dumbo octopus can swim deeper than Mount Everest is tall!











The pools are often as hot as 93 degrees Fahrenheit (34 °C) - much too hot for most insect eggs to survive! But, Culex survives the heat just fine.



