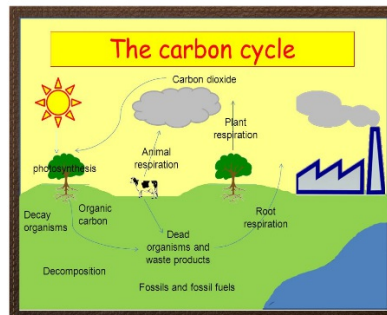
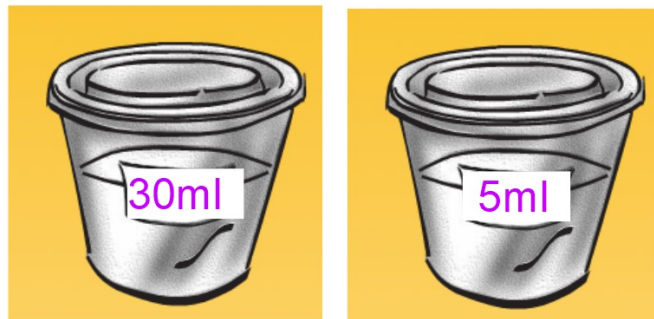


## How does carbon dioxide affect acidity?



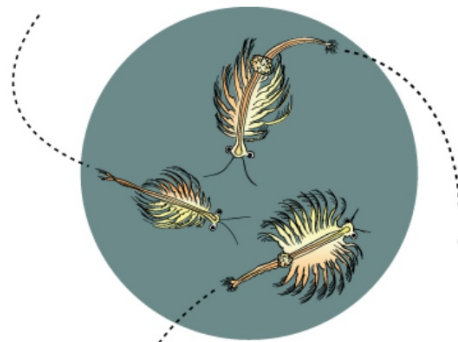
The more carbon dioxide in the water, the more acidic the water will be. Animals release carbon dioxide and take in oxygen. During the day, plants release oxygen and take in carbon dioxide. At night, plants release carbon dioxide because there is no light for photosynthesis.

## How did we design the brine shrimp experiment?



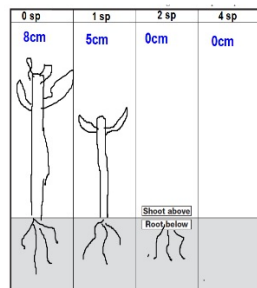
In a controlled experiment one variable (salt) is isolated and tested. All other variables are kept the same (controlled). We set up an experiment to find the range of tolerance of brine shrimp.

What is the range of salinity in which brine shrimp eggs can hatch?



Brine shrimp eggs can hatch in a range of salt concentration but hatch best in environments with optimum salt concentration. Brine shrimp eggs remain viable but don't hatch until the conditions are within the range of tolerance.

## How can we find an organism's range of tolerance?



Organisms have ranges of tolerance for environmental factors such as salt.

Discovering a range of tolerance can only happen by setting up a controlled experiment. Plants have different tolerances for salt, with barley and peas being the most salt-tolerant.