

Solution - Student Activity

Solution

AIM To test the solubility of carbon dioxide in cold water

Our oceans absorb 40% of all the carbon dioxide we release. Increased carbon dioxide results in increased ocean acidification (OA)

Materials

- 2 test tubes half filled with water
- Universal indicator
- 2 straws (plastic are best)

Method

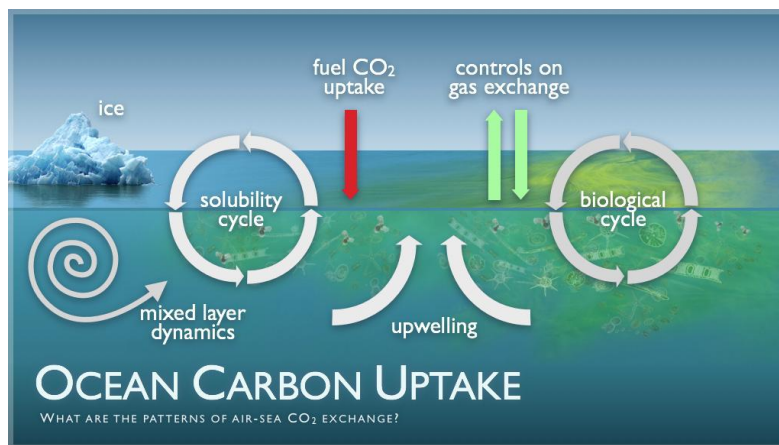
1. Place two drops of Universal Indicator Solution or a strip of indicator paper in each tube
2. Each student blows gently into the test tube.
3. Blowing stops when a colour change is observed.

Observation

What change occurred? _____

Conclusion

What does this change of colour lead you to conclude? _____

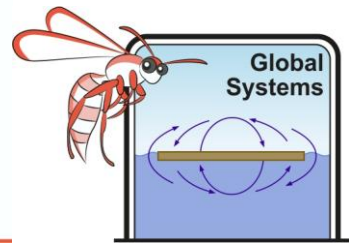


The sea is a large sink (reservoir) of carbon dioxide. Carbon dioxide moves between the atmosphere where it is in a mixture with other gasses and the ocean (hydrosphere) until a balance is reached (CO_2 partial pressures are equivalent).

AIM To test the solubility of carbon dioxide in warm water

Materials

- Some carbonated water (cool drink or soda water)
- Two small glasses or beakers
- A hot water bath (larger beaker with a little hot water)



Solution - Student Activity

Method

1. Fill two small containers with carbonated water
2. Place one container in a warm water bath
3. Observe

Observation
