

Photosynthesis

<http://teachmean.science.nsw.gov.au/000>

Carbon dioxide contains **one** atom of carbon and **two** atoms of oxygen.

We can write this as CO_2



Water contains **two** atoms of hydrogen and **one** atom of oxygen.

1. How do we write this? _____



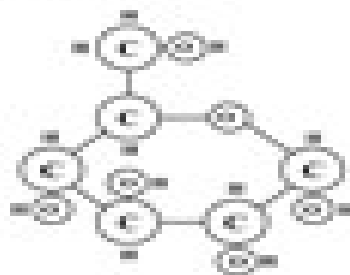
Each oxygen molecule contains **two** atoms of oxygen.

We write this as O_2



Plants use light energy to make carbohydrates from carbon dioxide and water.

FIRST, the plant makes glucose.



1. How many atoms of carbon are there in the glucose molecule? _____

This carbon has all come from the carbon dioxide (CO_2).

2. How many molecules of carbon dioxide must there have been? _____

3. How many atoms of hydrogen are there in the glucose molecule? _____

This hydrogen has all come from the water (H_2O).

4. How many molecules of water must there have been? _____

5. So, now you can complete the equation....

