### Chemistry Questions

Your group is going to write one or two sentences explaining where the mass came come.

Mass is the amount of matter in an object.

# Where did the mass in the tree come from?



seed



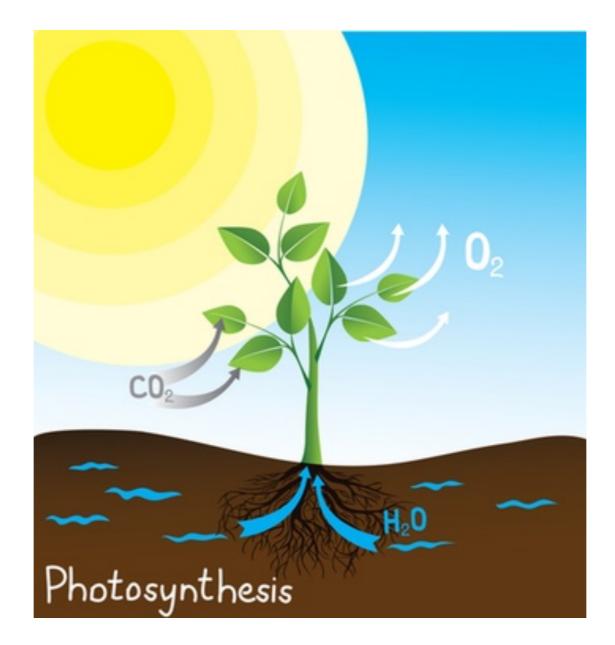
tree

Mass is the amount of matter in an object.

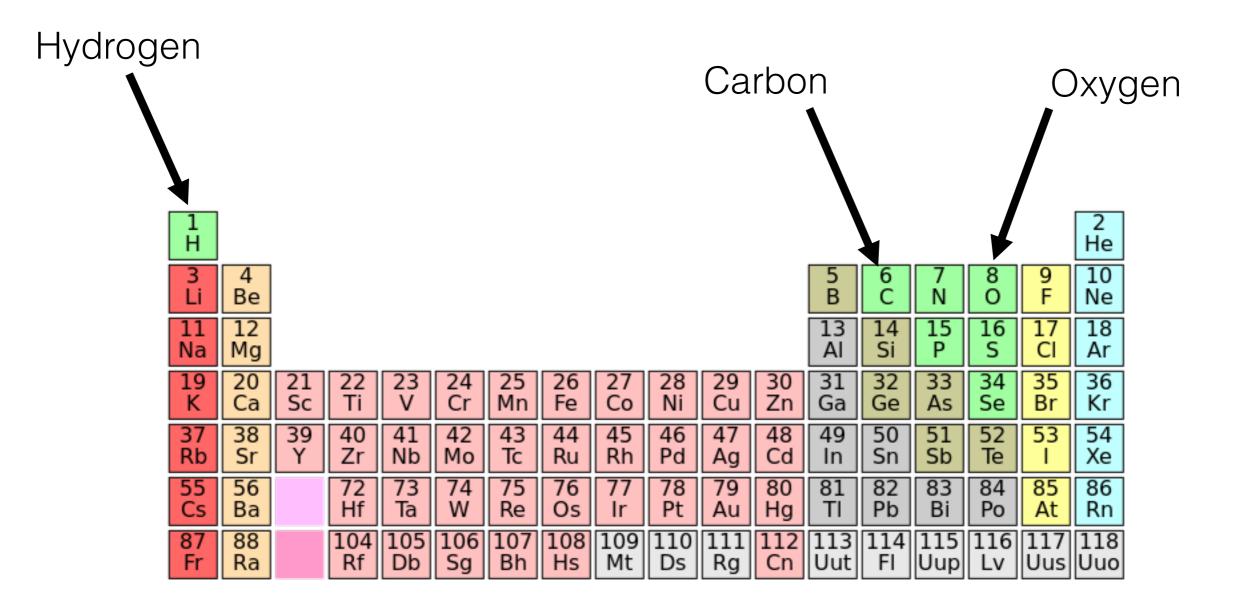
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# In photosynthesis, all of the Oxygen in water is released as Oxygen gas.

Where does most of the mass come from?

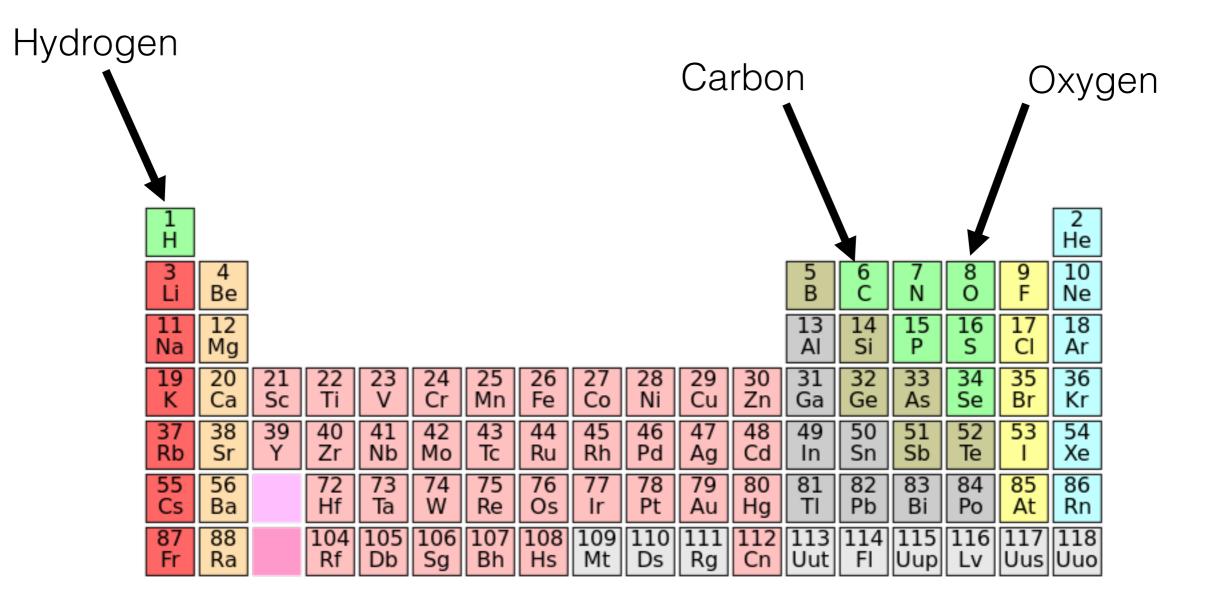


#### Since Carbon and Oxygen are both much larger atoms than Hydrogen, most of the mass in a tree came from the air.



Plants have a lot of carbohydrate (sugar and starch) and photosynthesis makes carbohydrates.

Carbo = Carbon Hydrate = Water ( $H_2O$ )



### Photosynthesis Misconception

http://www.learner.org/vod/vod\_window.html?pid=77

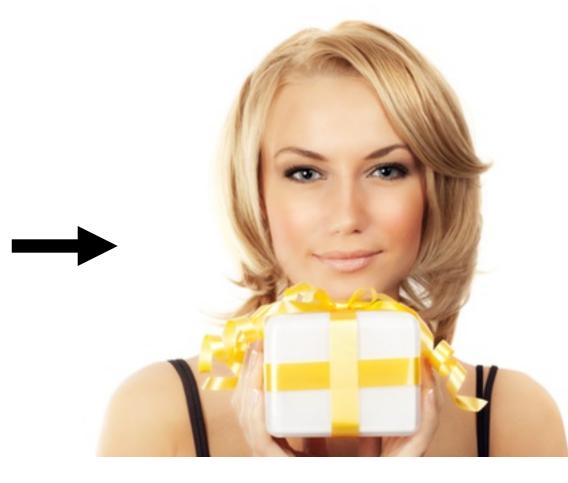
Play at 3:15

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# Where did the mass come from?





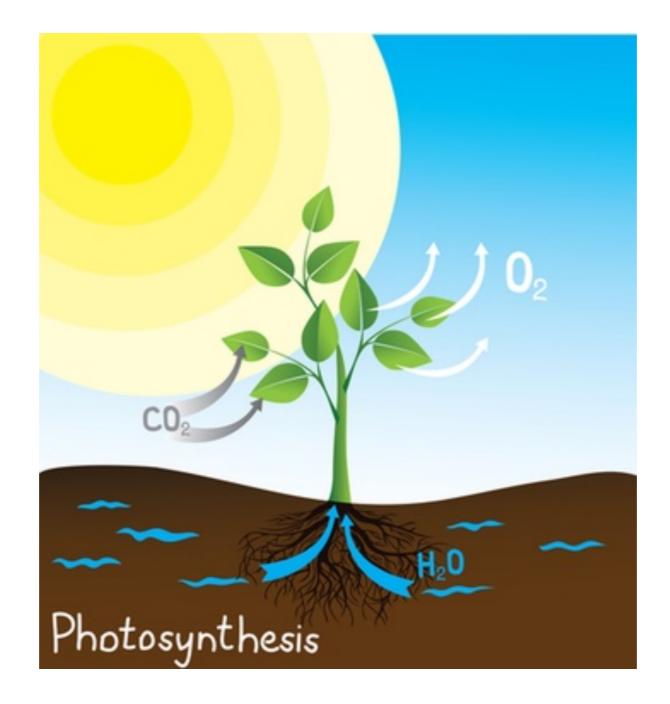


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# Animals get all of their mass from the food it eats.



# Plants are called <u>autotrophs</u> since they make their own food using photosynthesis.



## Animals are called **heterotrophs** since they need to eat (consume) their food.

