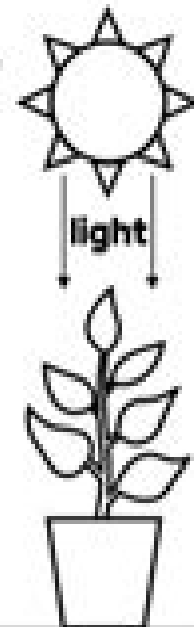


# ENERGY TRANSFER

## How does energy enter an ecosystem?

During \_\_\_\_\_, producers use energy from \_\_\_\_\_ and carbon dioxide, from the atmosphere or water, to synthesise useful \_\_\_\_\_ molecules. The total solar energy that producers convert to organic molecules is called the \_\_\_\_\_ primary production. Some of these organic molecules are used by the plant for \_\_\_\_\_. The remaining energy, after \_\_\_\_\_ have been taken into account, is converted into \_\_\_\_\_. This is the energy available to the next \_\_\_\_\_ level (and is known as the \_\_\_\_\_ primary production).

Why do producers convert as little as 1% of available solar energy into chemical energy?



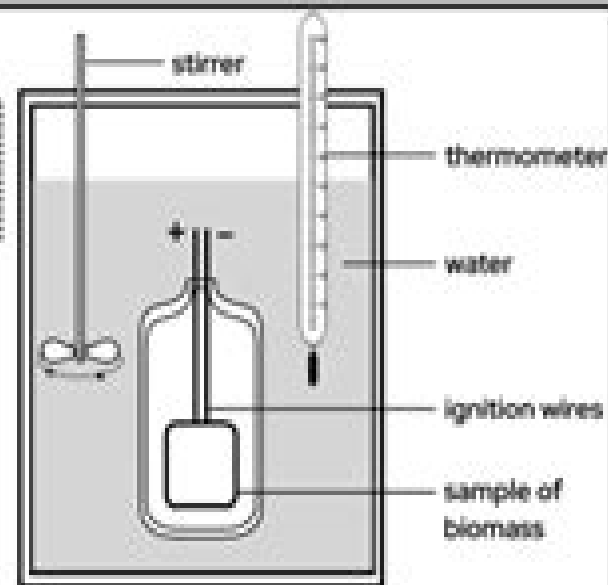
## Measuring biomass

Biomass is the total mass of living material in an organism and can be measured in terms of the dry mass of tissue per given area.

- A sample of the organism is \_\_\_\_\_ temperature.
- The sample is then \_\_\_\_\_
- The \_\_\_\_\_ and \_\_\_\_\_ becomes constant (repeat weighing ensures that all of the \_\_\_\_\_ has been removed).
- [Once the \_\_\_\_\_ sample is \_\_\_\_\_, the mass of carbon in the sample is approximately \_\_\_\_\_% of the dry biomass.]

How could \_\_\_\_\_ energy store \_\_\_\_\_ a sample of dry biomass?

Why must \_\_\_\_\_ temperature be low?



# Biology 18 3 Answer Key Energy Transfer

**M Walker**



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