

## Task 1 How producers make their own food

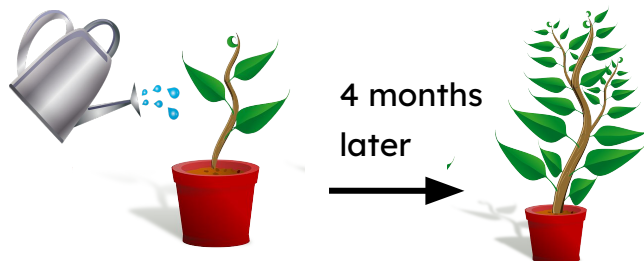
Putting the houseplant next to the window will help the plant to grow bigger because:

- *It will get more light from the Sun.*
- *Light transfers energy from the Sun to the plant's leaf cells.*
- *This provides energy for photosynthesis.*
- *Photosynthesis makes the plant's food.*
- *This food is used as:*
  - *a source of materials for growth*
  - *a source of energy for life processes.*



Izzy's houseplant

## Task 2 The reactants and products of photosynthesis



1. Write down what the plant has taken in to enable it to grow.

*The plant took in water (from the soil) and carbon dioxide (from the air) for photosynthesis. The plant also took in light to provide energy for photosynthesis.*

2. After 4 months the mass of the **plant** had **increased**, but the mass of the **soil** was the same as it was at the start. Explain why.

*The mass of the plant increased because it used carbohydrate from photosynthesis to make new cells and tissues. Most of the mass of this carbohydrate came from carbon dioxide from the air. The plant took in water from the soil, but this water was replaced so the mass of soil didn't decrease.*

