

The photosynthesis equation

- 1) **Explain** why plants are called primary producers and what this has to do with photosynthesis.
- 2) **Show** the photosynthesis equation a) in words and b) with chemical symbols:

a)

b)

Tips:

6 CO₂, 6 H₂O,
C₆H₁₂O₆, 6 O₂

Once again for better understanding:

The purpose of photosynthesis is to create _____ and _____.
_____, which is so important for us humans and is produced by splitting
_____, is merely a by-product.

Photosynthesis consists of two separate reactions: _____ and
_____.

Place of photosynthesis and light absorption

Explain

- a) where photosynthesis takes place and
- b) how leaves get their green colour.

Picture 1 can help with this.



Picture 1

Artificial photosynthesis

- 1) Describe what is understood by *artificial photosynthesis* and what *aim* it pursues.
- 2) In this context, researchers are working on photocatalysts. **Clarify** what *photocatalysts* are and how they could be *used*.
- 3) **State** the *visions*, but also possible *problems* of artificial photosynthesis.
- 4) **Discuss** other possible advantages and disadvantages with your partner.