

Photosynthesis and respiration – the photo-blue-bottle experiment

A1 Fill in the boxes with these words: *blue solution*, *cellular respiration*, *high-energy substances (chemische Verbindungen mit hohem Energiegehalt)*, *low-energy substances (chemische Substanzen mit niedrigem Energiegehalt)*, *photosynthesis*, *yellow solution*, *+ oxygen*, *+ light*.



A2 Match the terms *oxidation* and *reduction* to the arrows and give reasons for your choice.

A3 If you know the substances that are needed and produced in nature, add their names and formulas.

A4 Explain why the natural processes can be called 'carbon cycle'.

Finished? Assignments for the quick ones

A5 Collect similarities and differences between the two processes.

A4 In a chart or in a mind map, collect all forms of energy you have already come across in your science classes. Add an application example ("In which process is this form of energy being used?"). Add a title to your diagram.

chart – Tabelle
application example –
 Anwendungsbeispiel