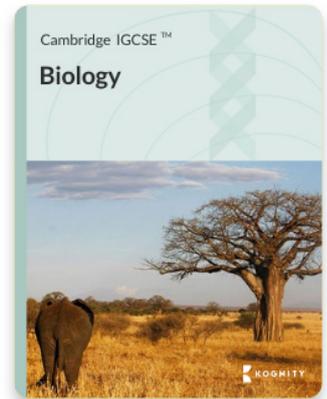


IGCSE Biology

Our IGCSE Biology subject supports the full Cambridge IGCSE™ Biology (0610) syllabus for the first examination from 2019.

Cambridge Assessment International Education believes that the use of these resources may enhance the learning experience for students of Cambridge IGCSE Biology (0610).



Key Features

With Kognity Biology, you have everything you need in one place. The Core and Extended syllabus content are both comprehensively covered, and are supplemented by a deep question bank for issuing questions to students of all levels to prepare them for exams and to consolidate learning.

<input type="checkbox"/>		Extended An organism is a unicellular saprotroph. State which kingdom it is most likely to belong to.	1.3	
<input type="checkbox"/>		Extended State the type of cell that produces mucus in the gas exchange system.	11.1	
<input type="checkbox"/>		Extended In which of these processes is water acting as a solvent?	4.1	
<input type="checkbox"/>		The table shows data collected from a 10-year study of the change in percentage of deforestation and reforestation in the Amazon. Year Percenta...	2 areas	
<input type="checkbox"/>		Extended Which of the following cannot sustain fish stocks?	21.4	

Practical

Aim

To investigate how to test a leaf for starch.

Safety

Ethanol is highly flammable, harmful and a health hazard.
Wear eye protection.
Make sure there are no flames nearby.

Summary of method

1. Place a leaf in boiling water for 30 seconds.
2. Remove the leaf, using forceps.
3. Place the leaf in a test tube of alcohol solution until all of the green colour has been removed from the leaf.
4. Dip the leaf into hot water to soften it and to remove excess alcohol.
5. Place the leaf on a white tile and cover it with iodine solution.

Results

The leaf will turn blue-black where starch is present.

Figure 1 shows the result you would expect to see if the leaf contains a lot of starch.



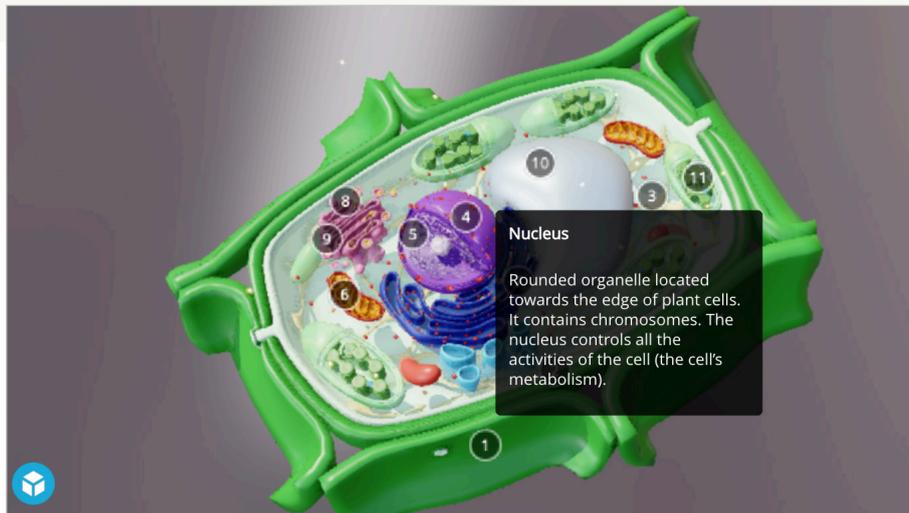
Figure 1. The black areas on this leaf show where starch is present.

The inclusion study skill boxes promote reflection and self-management, while practical boxes help develop key skills for examinations.

Study skills

Note that in the balanced chemical equation, there are balancing numbers of 6 in front of CO_2 , H_2O and O_2 . This may help you to recall the equation.

Diagrams, illustrations, photos and videos add a visual perspective to key concepts of the syllabus. Kognity Biology also contains 3D models that are embedded directly into the text so that students can access them while they read. These clickable, interactive resources make learning fun and engaging.



Kognity's Biology is written in clear language for international learners. Furthermore, it comes complete with a glossary, which allows students to explore key terms via a designated section of the book.

capillary

The smallest type of blood vessel; thin walls allow substances to be easily exchanged with the surrounding tissues.

carbohydrate

Organic compound containing carbon, hydrogen and oxygen. Includes glucose, starch, cellulose and glycogen.

cardiac muscle

The type of muscle that makes up the heart.

carnivore

An animal that gets its energy by eating other animals.

