

# IBDP Biology

## Teacher to Teacher Tips

Kognity is designed to help you prepare your students for success in their studies, while saving you time in the process. We have taken some of the most frequently asked questions from IBDP Biology teachers and asked other IBDP Biology teachers to provide the answers to them. Explore them below!



What should students focus on when reading the textbook?

All subtopics are divided into sections, just as they are in the IB Biology curriculum. Each section has one or more boxes within the text for items such as definitions and important information that cover key information which students should pay attention to. The last section in each subtopic is a checklist - these highlight key concepts from the entire subtopic.

When reviewing, have students focus on these specific features, so they can be as efficient as possible.



### Definition

**Microscope resolution** is the shortest distance between two separate points in a microscope's field of view that can still be distinguished as distinct objects.



### Be aware

A resolution of 0.1 nm is higher than a resolution of 200 nm. The higher the value, the lower the resolution.





## How can students prepare for the IB exams using Kognity Biology?

There are many exam type questions in the textbook that have detailed mark schemes with example answers. Students can attempt the questions and check the answers themselves using the mark schemes.

Strength test   Exam-style questions   Strength battle

### Exam-style questions

Exam-style questions become available once you have received them in an assignment from your teacher.

1. Cell biology 7 / 8 questions

2. Molecular biology 9 / 12 questions

- Question 2.1 Paper 2 4 marks Opens in 'Evaluacin Diagnostica'
- Question 2.2 Paper 2 6 marks Opens in 'Evaluacin Diagnostica'
- Question 2.3 Paper 2 5 marks Opens in 'Assignment 2020-08-26'
- Question 2.4 Paper 2 6 marks Opens in 'Assignment 2020-08-26'
- Question 2.5 Paper 2 6 marks Opens in 'Assignment 2020-08-26'
- Question 2.6 Paper 3 16 marks Opens in 'Assignment 2020-08-26'
- Question 2.7 Paper 3 6 marks
- Question 2.8 Paper 2 16 marks Opens in 'Assignment 2020-08-18'
- Question 2.9 Paper 2 15 marks Opens in 'Assignment 2020-09-30'
- Question 2.10 Paper 3 8 marks
- Question 2.11 Paper 2 5 marks Opens in 'Assignment 2020-09-30'
- Question 2.12 Paper 2 15 marks



## How can Kognity Biology help prepare students to achieve success in the Internal Assessment?

Kognity Biology has a detailed section on how to write the Chemistry Internal Assessment. Within this section, students can find numerous hints and tips on how to achieve the best mark possible in the Internal Assessment.

### Subtopic IA.1

## Internal Assessment guide

Create assignment ▾

✎ Students taking questions in this subtopic (by class):

0/6

0/8

0/6

0/6

### Contents

IA.1.0 Introduction

IA.1.1 Getting started

IA.1.2 Personal engagement

IA.1.3 Exploration

IA.1.4 Analysis

IA.1.5 Evaluation

IA.1.6 Communication

IA.1.7 Checklist for final report



## How can Kognity Biology help students with their practical skills?

Kognity Biology contains a Practicals section where students can find an example experiment for each of the prescribed practicals. Each example features a detailed procedure together with a list of apparatus and chemicals required for the experiment.

Section P.1.2

## Investigating the osmolarity of plant tissues

Create assignment ▾

■ Students who have completed this section (by class):

0/6

0/8

0/6

0/6

It is challenging to determine what is happening inside cells, but with careful experimental design, we can do so. This required practical investigates one aspect of the homeostatic conditions cells maintain inside their membranes: the balance of water and solutes. This is particularly important for plants, as they depend partially on water pressure inside their cell walls to maintain structure (**Figure 1**).

