

Assessment Prep with Kognity

IBDP Environmental Systems and Societies

What is this guide for?

This guide is designed to help you make the most out of Kognity as a tool to prepare students for success both in formative assessments and IBDP exam preparation.

How does Kognity help with assessment preparation for IBDP ESS?

According to [John Hattie](#), Professor of Education and Director of the Melbourne Educational Research Institute at the University of Melbourne, Australia, feedback is an important driver for improving teaching and learning. Formative assessments play a large role in consistent feedback throughout the year as students prepare for their IBDP exams. Kognity provides efficient tools for immediate feedback to both the student and teacher.

“

“Think of feedback as received, not given.”

John Hattie

For students:

Students can test their problem solving, interpretation and analysis skills in ESS through completing worked examples and receiving immediate feedback on their responses. In addition, at the end of each section, students can complete section questions that are auto-graded, allowing them to receive feedback right away on their progress.



For teachers:

Teachers get immediate feedback on their students' progress through the Textbook and Questions data, located on the Insights page. Here, teachers can view a visual representation of student quiz and assignment scores. Teachers can then easily identify those students who need help, which makes intervention fast and efficient.

Below you will find some ways teachers can use Kognity's resources to successfully prepare their students for IBDP ESS assessment components. Click on each picture to explore more in Kognity ESS!



How does Kognity
help with formative
assessments?

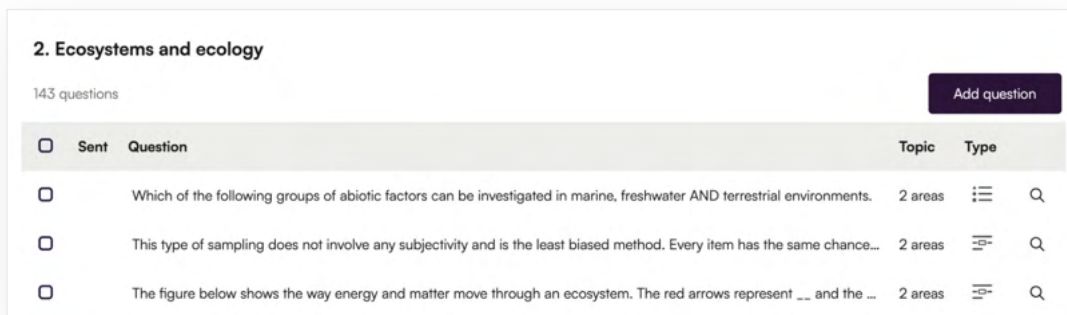


How does Kognity help
with IB Assessment
Preparation?

How does Kognity help with formative assessments?

Revision Quizzes

Kognity's question assignments can be used as revision quizzes for review at the end of a unit. Teachers can drill students on specific techniques and tools using multiple examples. All question assignments are auto-graded, so students and teachers can immediately receive the results. Teachers can then revise any common mistakes before starting to teach new content.

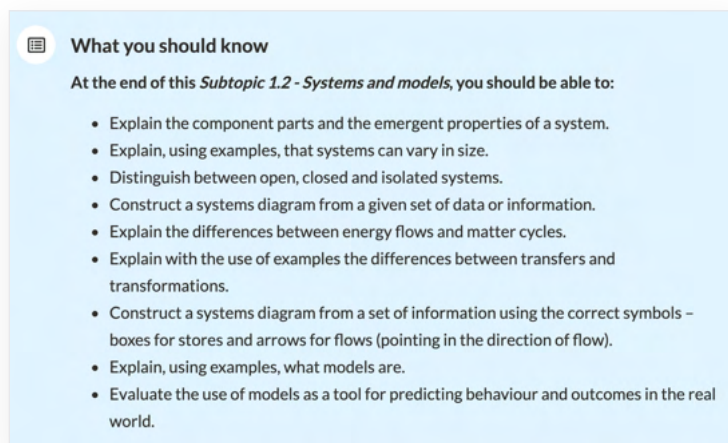


The screenshot shows a user interface for a question assignment. At the top, it says '2. Ecosystems and ecology' and '143 questions'. There is an 'Add question' button. Below is a table with columns for 'Sent', 'Question', 'Topic', and 'Type'. Three questions are listed, each with a checkbox in the 'Sent' column, a question text, '2 areas' in the 'Topic' column, and a 'Type' icon (represented by three vertical bars) and a search icon (Q).

<input type="checkbox"/>	Sent	Question	Topic	Type
<input type="checkbox"/>		Which of the following groups of abiotic factors can be investigated in marine, freshwater AND terrestrial environments.	2 areas	☰ Q
<input type="checkbox"/>		This type of sampling does not involve any subjectivity and is the least biased method. Every item has the same chance...	2 areas	☰ Q
<input type="checkbox"/>		The figure below shows the way energy and matter move through an ecosystem. The red arrows represent __ and the ...	2 areas	☰ Q

Notebook and Checklists

Kognity's notebook feature allows students to make their own notes and print out if necessary for consolidation. Students can use the notebook feature when they are performing self-assessment of knowledge and understanding at the end of each chapter with the checklists.



The screenshot shows a checklist titled 'What you should know'. Below the title, it says 'At the end of this Subtopic 1.2 - Systems and models, you should be able to:'. There is a list of 10 bullet points describing various skills and knowledge related to systems and models.

What you should know

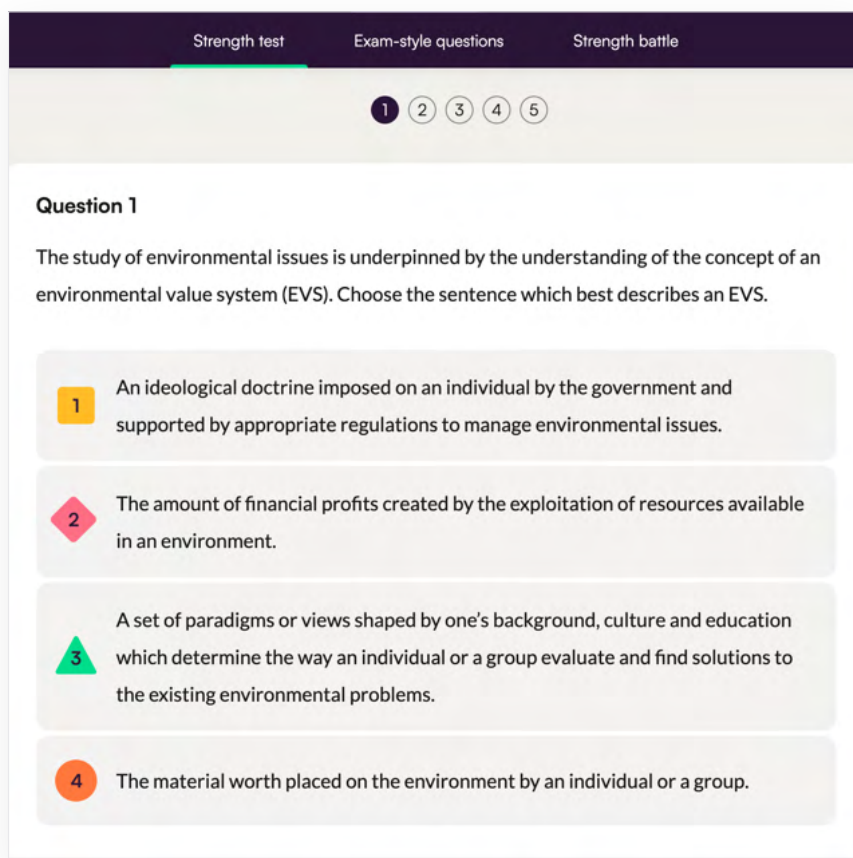
At the end of this *Subtopic 1.2 - Systems and models*, you should be able to:

- Explain the component parts and the emergent properties of a system.
- Explain, using examples, that systems can vary in size.
- Distinguish between open, closed and isolated systems.
- Construct a systems diagram from a given set of data or information.
- Explain the differences between energy flows and matter cycles.
- Explain with the use of examples the differences between transfers and transformations.
- Construct a systems diagram from a set of information using the correct symbols – boxes for stores and arrows for flows (pointing in the direction of flow).
- Explain, using examples, what models are.
- Evaluate the use of models as a tool for predicting behaviour and outcomes in the real world.

How does Kognity help with formative assessments?

Self-Study

To provide students with resources for self-directed active recall study, use strength tests and battles. Students can also use self-assessment checklists before a test or exam to help students identify areas of weakness.



The screenshot displays a user interface for a 'Strength test'. At the top, there are three navigation tabs: 'Strength test' (which is highlighted with a green underline), 'Exam-style questions', and 'Strength battle'. Below the tabs is a progress indicator consisting of five numbered circles, with the first circle containing the number '1' and being filled with a dark purple color, indicating the current question. The main content area is titled 'Question 1' and contains the following text: 'The study of environmental issues is underpinned by the understanding of the concept of an environmental value system (EVS). Choose the sentence which best describes an EVS.' Below this text are four multiple-choice options, each in a light grey rounded rectangle. Option 1 is marked with a yellow square containing the number '1'. Option 2 is marked with a red diamond containing the number '2'. Option 3 is marked with a green triangle containing the number '3'. Option 4 is marked with an orange circle containing the number '4'. A large, stylized pink arrow graphic points from the bottom right towards the question area.

Strength test Exam-style questions Strength battle

1 2 3 4 5

Question 1

The study of environmental issues is underpinned by the understanding of the concept of an environmental value system (EVS). Choose the sentence which best describes an EVS.

1 An ideological doctrine imposed on an individual by the government and supported by appropriate regulations to manage environmental issues.

2 The amount of financial profits created by the exploitation of resources available in an environment.

3 A set of paradigms or views shaped by one's background, culture and education which determine the way an individual or a group evaluate and find solutions to the existing environmental problems.

4 The material worth placed on the environment by an individual or a group.

How does Kognity help with IB Assessment Preparation?

Internal Assessment

To ensure success in the IA, teachers must spend time introducing and explaining the criteria and responsibilities to their students. Kognity's IA topic is a great resource for both teachers and students to understand the requirements and see samples, as well as formats for planning and practising their presentations. Below are some specific ways Kognity helps students prepare for the IA.

The following sections give students the opportunity to practise all the data collection techniques they will need for the IA:

- Sections 9.1.8 — 9.1.11 have sample research questions with guidance on alternative data collection techniques that can be used.
- Section 9.1.12 talks about questionnaires and surveys as a method of data collection. Check these sections carefully — especially if you have not had students use secondary data source's before
 - They must have 3 data sets included but with independent and dependent variables
 - They must have a minimum of 30 data points

IB Exam Papers

Subtopic 9.2 is an Exam guide which includes revision techniques, common exam mistakes, and a detailed explanation of Papers 1 and 2 for students to access at any time throughout the year. Exam tips are written by IB examiners and provide students with an understanding of what is expected of them on their exams. These contain tips from examiners about:

- Pitfalls and common problems to avoid and how to avoid them
- What students should include in responses
- What case studies / examples they need to know



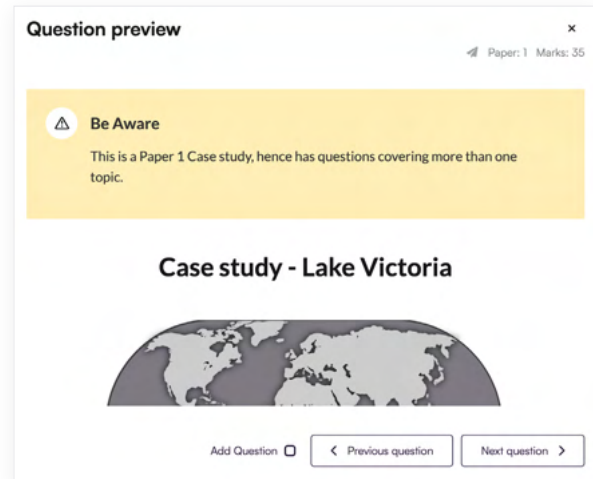
Exam Tip

Make sure you understand how the concepts of evolution, speciation and biodiversity are linked.

How does Kognity help with IB Assessment Preparation?

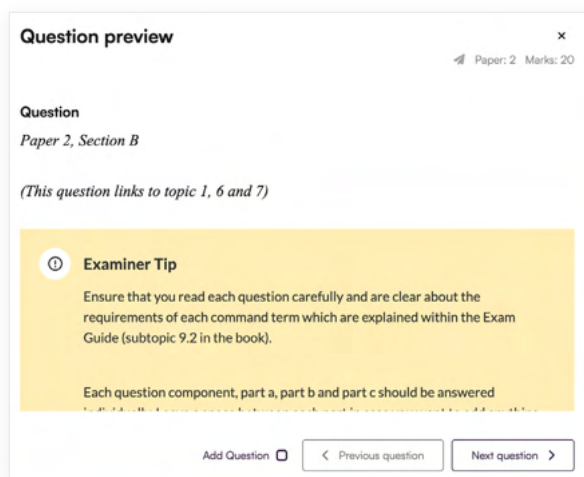
Paper 1

Students have access to a whole guide on Paper 1 in section 9.2.5. There are also two paper 1 style questions on Kognity's exam style assignment that can be made available by issuing an exam style assignment. A word to the wise, it is better to use these in topic 1, this needs to be done towards the end of the course as it tends to cover numerous topics.



Paper 2

Students have access to a whole guide on Paper 2 in section 9.2.6. There are also numerous sample questions for the students to access in the exam style questions.



Anything that says

- Paper 2: 20 marks — these are the extended response question
- Paper 2: less marks — these are short answer questions from section A paper 2

In both cases the questions

- Are in the format of the IB questions
- Use only CT's
- Have a full mark scheme
- Give warnings of things to be wary of