Starting the School Year with Kognity

Topic:	1 Cell Biology
Lesson:	Ready for Action Lesson Plan
Subject:	IBDP Biology

What can I use this lesson plan for?

This is a great lesson plan for introducing students to both the Biology curriculum and Kognity's digital platform features in the beginning of the school year. As the year progresses, you can use these activities with different topics in the Biology digital book.

Lesson Objectives:

Students will be able to apply Kognity's digital book features to classroom learning in Biology.

Time Allotment:

Recommended time is *one hour*, however the revision activities provide opportunities for extension.

Materials:

1.1.0 (the big picture), 1.1.1 (Cell theory)

Activities with Kognity

Hook

Tell students they are going to start the unit by doing a pre-assessment in their Kognity platform to get a sense of how much they know about Cell Theory. Students should do the following:

- Head to the practice centre and take the **Strength Test** for Subtopic 1.1 (Introduction to cells).
- Review their answers while they wait for classmates to finish.
- Discuss each of the questions as a class.

Introduction Activity

Give a brief introduction of more useful Kognity features for students, by explaining that:

- The content in each section of the book incorporates features such as **videos, external links, TOK** and **Nature of Science** boxes to enhance students' learning
- Each subtopic has a series of **section questions** that allow students to check their knowledge and understanding in small increments.
- The **practice centre** has exam style questions, strength tests and battles for all topics that allow students to check their knowledge and understanding of each topic. As they engage with the **strength test and battles**, their **strength bar** (on the overview page) will increase, allowing them to keep track of their strong content areas and areas they need to work on.
- Teachers can assign readings and questions and can keep track of student progress.

Group Activity

1. Tell students they are going to complete a 'virtual scavenger hunt' to help familiarise themselves with Kognity and its features, as well as to introduce the IB Biology course.

   Note: This could be done as a timed activity with the group who finishes first being the 'winner'.

2. Give each group a list of clues to which they have to find the answers in section 1.1.0 (the big picture) and 1.1.1 (cell theory).

   The following clues could be used:

   1. An example of a multicellular organism (human being)
   2. The scientist that first used the term, "cell" in 1665 (Robert Hooke)

3. When students have completed the scavenger hunt, have students share their answers with the class.

   Note: this can be done in any section of 1.1

Independent Activity

1. Have students read the Theory of Knowledge and Nature of Science boxes in section 1.1.1, and watch the video, *The wacky history of cell theory*.

2. Have students respond to the following questions in their Kognity notebooks:
   - What do you think the purpose of the Nature of Science and Theory of Knowledge boxes are?
   - How did cell theory adapt over time?
   - Does knowing the history of cell theory enhance your understanding of it?

3. Have students discuss their responses with a partner.

Revision Activities

When students finish subtopic 1.1, there are several possible activities you can do with your class.

- Students can go back to the **practice centre** to take the subtopic 1.1 **Strength test** again as a post assessment, or engage in a **strength battle** with a classmate (these questions encompass all of topic 1)
- Set a question assignment for your students. You can use questions from Kognity's question bank or create questions of your own.
- Have students respond to the 1.1.10 Checklist bullet points in their Kognity notebooks.