

Starting the School Year with **Kognity**

Topic: D: Fields

Lesson: Ready for Action Lesson Plan

Subject: IBDP Physics



What can I use this lesson plan for?

This is a great lesson plan for introducing students to both the Physics curriculum and Kognity's digital platform in the beginning of the school year. The activities in this lesson work well with remote or in person learning. As the year progresses, you can use these activities with different topics in the Physics digital platform.

Lesson Objectives:

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

Time Allotment:

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

Materials:

D1.0 (Gravitational Fields-The big picture)

Activities with Kognity

Hook

Encourage students to explore Kognity by directing them to the Strength Battle in the Practice section. Have them compete against each other (or the Kogbot) on a topic of their choice, and consider offering a small reward for the winner.

This highlights one of Kognity's key benefits: allowing students to learn and practice independently in a more engaging manner.

Introduction Activity

Provide a brief overview of Kognity's valuable features for students:

- 1. Interactive Content:** Each book section includes videos, external links, simulations, and example questions to enrich the learning experience.
- 2. Section Questions:** Every subtopic contains a series of section questions that enable students to assess their knowledge and understanding incrementally.
- 3. Practice Centre:** The practice centre offers exam-style questions, strength tests, and battles for all topics, allowing students to gauge their comprehension. As students engage with strength tests and battles, their strength bar on the overview page increases, helping them identify their strong and weak areas.
- 4. Teacher Tools:** Teachers can assign readings and questions, and monitor student progress effectively.

Group Activity

1. As a class, ask students to go to section D1.0 (Gravitational Fields-The big picture) and identify and discuss with a peer the content contained in one of the **Videos**. These are integrated into the lessons, to help students visualise concepts.
2. Have students identify the following items in sections [D1.1](#) and [D1.2](#):
 - Guiding Questions
 - Definition
 - International Mindedness
 - Prior Learning
 - Study Skills
 - Nature of Science
 - Theory of Knowledge
 - Making Connections
3. Explain that, when reading on their own, students should pay special attention to these items - they contain key information for getting the most out of their learning.

Independent Activity

1. Have students read the Theory of Knowledge Box in D1.1 and write the answers to the questions in their Kognity notebooks:

Laws of physics are statements that can be disproved or refined to better describe the universe. Because we call them 'laws', we often think of them as absolute rules that the universe obeys.

 - Why do we call them 'laws'?
 - How does this terminology affect the perception of knowledge claims in the natural sciences?
2. After students have responded to the questions independently, have them share their answers with a partner.

Revision Activity

The following are different revision activities you can do with your class on any Physics subtopic:

- Have students respond to the Checklist prompts at the end of each section in their Kognity notebooks.
- Assign students Practice/Exam-style questions, where they can answer one to two questions for a specific subtopic that has already been discussed in class. These questions are modelled after IB exams, so they will prove invaluable when students are getting ready for papers 1A/B-2.
- Create a question or reading assignment on any topic or subtopic. Then, have students head over to the Assignments tab, so they can identify how assignments are presented to them, and can complete their first graded homework/activity on Kognity.

