

IBICUS LIVE INTERACTIVE VIRTUAL WORKSHOPS

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WORKSHOP AGENDA

SUBJECT	Physics	Category	1
Programmes	DP	Dates	21-23 September 2020
Leader	Tim Kirk		

Pre-workshop information and preparation:

These workshops are designed to prepare participants to teach DP physics in a manner that supports the IB mission statement and philosophy. The workshop will focus on:

- Developing an understanding of the IB mission and philosophy through the DP programme model as a context for an holistic learning experience.
- The physics guide and associated internal and external assessment requirements with practice marking activities of sample student work.
- Structuring a course that integrates authentic assessment and encourages students to make links across the DP that will enhance their understanding.
- IB Programme standards and practices.
- Using online platforms to access IB publications and network with other IB educators.

It would be helpful for delegates to have the following materials to hand:

- Information about your school to share with other delegates.
 - The Physics syllabus for your own reference (hard copy or electronic).
 - Your log-in for My IB.
 - Examples of practical work to share with other delegates (electronic format).
 - Outline of your practical programme (if this already exists) to share with other delegates (electronic format).
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Day 1 – Monday 21st September

08:30-08:55	UK time	WORKSHOP SET-UP Welcome, navigation, app usage, general housekeeping
08:55-09:00	UK time	Break
09:00-10:00	UK time	Session 1: Introductions, Expectations & Links to the core <ul style="list-style-type: none">● To explore the context in which participants and their schools are working.● To share what delegates are hoping to get out of the workshop.● To finalise the objectives of the workshop.● To review the importance of developing International-mindedness.● To explore the links with the Theory of knowledge curriculum.
10:00-10:10	UK time	Break
10:10-11:10	UK time	Session 2: Links to the core (continued) & “From Standards to Practices” <ul style="list-style-type: none">● To explore the Extended Essay.● To explore implications of the “From Standards to Practices” Document.
11:10-11:20	UK time	Break
11:20-12:20	UK time	Session 3: Approaches to teaching and learning <ul style="list-style-type: none">● ATL techniques and their application to physics teaching.
12:20-12:30	UK time	Break
12:30-13:30	UK time	Session 4: Syllabus structure and the role of practical work. <ul style="list-style-type: none">● To develop an overview of the structure of the IB DP Physics syllabus.● To review IB expectations concerning the practical programme.● To understand the role of Nature of Science in IB DP Physics.● To explore the pivotal role of practical work in IB DP physics.● To understand the role of the Group4 project.● To understand the relevance of a solid design of the practical programme and principles that should support it.● Required and Suggested Experiments.

Day 2 – Tuesday 22nd September

09:00-10:20 UK time

Session 5: Internal assessment - The Practical Project.

- To explore the aims, expectations and requirements of the IA criteria.
- To understand the range of possible individual investigation types.
- To understand the role of ICT in the IA.
- To explore different ways of developing these IA skills.
- To explore ways of supporting students in their design of a project.
- To explore error analysis.
- To establish links between the individual investigation and approaches to the teaching of physics.
- To share teaching strategies that will support the development of skills.

10:20-10:35 UK time

Break

10:35-11:55 UK time

Session 6: Internal assessment - The IA criteria

- To explore the aims and expectations of the IA criteria.
- To understand the requirements of IA criteria.
- The best-fit model.

11:55-12:10 UK time

Break

12:10-13:30 UK time

Session 7: Internal Assessment - Moderation process

- To experience the process of moderation.
 - To investigate how teachers can help the moderator.
 - To investigate how students can help the moderator.
 - To investigate how to support the writing of a quality scientific report.
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Day 3 – Wednesday 23rd September

09:00-10:20 UK time

Session 8: External assessment - The written papers

- To explore the implications of format of the different papers.
- To discuss the marking of student's work.
- To share good practice in how to support students with their examination techniques.

10:20-10:35 UK time

Break

10:35-11:55 UK time

Session 9: Syllabus content

- To investigate the IB process of syllabus review.
- To review the detail of the current Physics syllabus.
- To review how the choice of options is managed.
- To share challenges and suggest successful approaches.

11:55-12:10 UK time

Break

12:10-13:30 UK time

Session 10: Internal organisation in schools, wrap-up & review

- To understand the student and teacher responsibilities.
 - To debate when and how to schedule to IA & the Group4 project.
 - To illustrate good practices of guidance based on investigations considered in previous sessions.
 - To deal with any last-minute issues.
 - Resources exchange.
 - To develop some tools that could be used in difficult situations.
 - To reflect on and share experiences relating to the workshop.
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