

NEW: AQA A LEVEL PHYSICS: CHALLENGING ABLE STUDENTS TO ACHIEVE A*

CODE 8192

ABOUT THIS COURSE

This updated course is for experienced teachers of A level Physics looking to develop new strategies for extending their very able students hoping to achieve A/A* and possibly go on to read Physics, or related disciplines at degree level. With time to reflect on changes to the assessment and other knock on effect of Covid, this course will provide practical solutions and ideas to support your most able students.

The course will provide guidance on getting the best out of A/A* candidates and on preparing them for the examinations. Delegates will take away a range of ideas, approaches and proven strategies for teaching top end students,. Many of the principles presented will be applicable across the other A level sciences.

PROGRAMME

PROGRAMME	TIME
Identifying and challenging able students in physics <ul style="list-style-type: none"> Identifying the genuinely gifted physicists at A level Characteristics of high attainers in physics How to teach and challenge gifted students in mixed attainment groups Developing skills for independent learning 	10.00 – 10.45am
Discussion: coffee break	10.45 – 11.00am
Dealing with the problems created by the Covid-19 lockdown <ul style="list-style-type: none"> Strategies for catching up on the specification content normally taught in the Summer term of Y12. Possible changes to the 2021 exams as authorised by Ofqual and implemented by AQA to compensate for ‘lost teaching time’ in Y12. Incorporating some of the best aspects of online teaching, learning and assessment into routine lessons 	11.00 – 11.45pm
Improving able students’ understanding of difficult physics concepts <ul style="list-style-type: none"> Effective approaches to teaching the physics topics that able students miss marks on in exams Using computer simulations to challenge and extend students’ understanding Examples of experiments to stimulate thought and challenge ideas 	11.45 – 12.45pm
Lunch and informal discussion	12.45 – 1.45pm
Higher Order Questioning <ul style="list-style-type: none"> Problem solving contexts Approaches to improve lateral thinking Modelling in Physics Thought provoking examples to challenge learners’ understanding 	1.45 – 2.30pm
Extending the A/A* Students <ul style="list-style-type: none"> Classroom and laboratory activities that encourage higher order thinking Olympiad and other physics competitions How to support your students with Russell Group interviews 	2.30 – 3.00pm
Maximising marks in the examinations <ul style="list-style-type: none"> Examples of mistakes often made by able students in physics examinations Preparing for the exam papers in a logical and systematic way to maximise marks A carefully planned revision campaign that leaves nothing to chance. 	3.00 – 3.45pm

Afternoon tea will be available during the afternoon sessions

LOCATION/DATE

Online

Friday 27 November 2020

Manchester

Monday 20 January 2021

COURSE LEADER

Howard Dodd has worked as an A-level Physics Principal Examiner (writing exam papers and supervising marking) for over twenty years being employed by OCR, AQA and Edexcel.

He has a national reputation for providing high quality and helpful in-service training courses for secondary and post-16 teachers.

WHO SHOULD ATTEND?

- A-level Physics teachers
- Heads of Physics
- Heads of Science
- Teachers preparing science students to read Physics at University

BENEFITS OF ATTENDING

- Develop your teaching approaches to raise the attainment of your more able students.
- Challenge your students with problem solving and questioning to stretch students’ understanding.
- Find out how to reliably identify high attaining Physics students (not just those with A* at GCSE).
- Explore the common mistakes made by high attainers in Physics examinations.
- Solutions for dealing with the problems created by the lost teaching time in Y12 due to the Covid-19 lockdown.