

## STUDENT WEBINAR

# A LEVEL PHYSICS: HOW TO SUCCEED IN EXAM QUESTIONS ON VECTOR AND PROJECTILES

### FOCUS

This Webinar addresses two topics in A level Physics which students find challenging – vectors and projectiles. Vector questions typically involve forces and in particular moments of force. Projectile questions can only be solved when a student has grasped the essential concept of vector components. Students will learn the basic concept of vectors and components as required in A level Physics and how to apply this knowledge to complex problems.

### PROGRAMME

	TIME
<b>Introduction, welcome and sound check</b>	4.00 - 4.05pm
<b>Introduction to two dimensional vectors</b>	4.05 - 4.25pm
<ul style="list-style-type: none"> <li>● Adding two perpendicular vectors using a vector triangle</li> <li>● The concept of resolving vectors – x and y components</li> <li>● Balancing components of vectors</li> <li>● Some basic examples</li> </ul>	
<b>Moments of force</b>	4.25 - 4.35pm
<ul style="list-style-type: none"> <li>● Concept of perpendicular distance and how this is calculated</li> <li>● Using components to simplify moments problems</li> <li>● Example of complex moments questions</li> </ul>	
<b>Solving force problems using the component method</b>	4.35 - 4.50pm
<ul style="list-style-type: none"> <li>● How to resolve forces into components</li> <li>● How to use equilibrium to balance forces</li> <li>● Examples of force balancing problems</li> </ul>	
<b>Projectile problems</b>	4.50 - 5.00pm
<ul style="list-style-type: none"> <li>● How to set up suvat equations in two independent dimensions</li> <li>● Useful strategies for solving projectile problems</li> <li>● Worked examples of projectile problems</li> </ul>	

### DATE

**Monday 26 April 2021**

**Wednesday 30 June 2021**

### WEBINAR LEADER

**Tony Dunn** has taught for over 30 years in secondary schools and sixth form colleges, mainly in inner city areas, specialising in A-level Physics. He was Head of Science for 12 years and spent several years training Physics teachers in SE Asia. He has been an examiner for OCR A-level Physics for the past five years and developed CPD courses, webinars and student conferences for Keynote for over a year.

### FOCUS POINTS

- Learn key strategies to improve your preparedness to achieve well on your final exams
- Experience a unique opportunity to hear from an experienced examiner in A level Physics
- Gain top level advice and guidance on how to access the higher grades in examinations
- Enhance your understanding of key areas of Physics, all linked directly to the exam papers
- Take away a full set of conference notes, with examination tips and example answers

### WHY SHOULD YOU BOOK A STUDENT WEBINAR?

- ✓ Give your students the edge to find out directly from examiners how to maximise their achievement potential
- ✓ Consolidate and deepen key knowledge essentials
- ✓ Listen to and discuss exemplar work
- ✓ Find out more about the key challenges and what the examiner is looking for in top quality work