

# STUDENT WEBINAR

## NEW: MATHS FOR A LEVEL BIOLOGISTS: PREPARING FOR YEAR 13

### FOCUS

Aims to take your students beyond aimless number crunching and guessing when it comes to mathematically demanding questions in Biology papers. Students will learn the 'why', not just the 'how' when dealing with numbers in Biology questions.

### PROGRAMME

#### Welcome and Introduction

TIME

4.00 - 4.05pm

#### Common sense, the marks you really shouldn't miss

4.05 - 4.25pm

- Rates, rates, rates! Additional insight and tips in ways to measure and drawing conclusions on them.
- Life behind the lens. How not to miss those vital marks on magnification. See exam answers (littered with common errors) from previous exam years.
- Tackling difficult questions based on the mathematics of beating hearts

#### Population growth and genetic frequencies

4.25 - 4.55pm

- Zero in on the hidden aspects of Hardy-Weinberg in exam questions.
- What to do (and why) with numbers as biomass flows through an ecosystem
- The consequences of using standard form and indices when looking at bacterial populations

#### Year 12 plenary session Mistakes and misconceptions

4.50 - 5.00pm

- A session to identify and feedback on some common errors seen when marking exam papers

### DATE

Thursday 04 March 2021  
Wednesday 21 April 2021

### WEBINAR LEADER

**Debbie Nsefik.** With over 20 years in teaching, Debbie has been a classroom teacher, a Head of Department, an education consultant and a senior examiner for OCR. Debbie has worked in a range of educational environments. She taught in an inner-city comprehensive school, a prestigious independent school both in Central London and several years training teachers (for their license accreditation) in the state of Qatar and the United Arab Emirates. She brings with her a wealth of experience, knowledge and novel ideas from this diverse and unique background.

### WHO SHOULD ATTEND

- All students taking A-level Biology

### FOCUS POINTS

- Review and apply maths skills to higher order thinking questions in Biology based on real life applications
- 'Dissect and diagnose' genetic frequency problems seen in closed communities (and exam papers!)
- Predict, identify and calculate the lags, logs, rates and critical values in microbial life.
- Answer with confidence, exam questions on the good, the bad and the ugly sides of ecosystems and sustainability.
- Confidently draw conclusions by Interpreting numbers taken from statistical data

### 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