

# A LEVEL: PHYSICS

## (AWARDING BODY OCR)



### CONTENT

Studying A level Physics enables students to build on their knowledge of the laws of physics, applying their understanding to solve problems on topics ranging from subatomic particles to the entire universe.

**The A level programme** is assessed by the OCR 'A' specification.

**Paper 1:** Modelling Physics (37% of the qualification) examines traditional mechanics and astrophysics.

**Paper 2:** Exploring Physics (37%) covers applications of electrons, photons and waves including medical and nuclear physics.

**Paper 3:** Unified Physics (26%) is a synoptic paper drawing from the whole specification.

**The practical endorsement** is delivered and assessed entirely in school. Students complete up to 36 practical activities during the 2 year course.

The Academy is a Link+ school for the Institute of Physics.

### PROGRESSION

The most common degree choices after studying A level Physics are Mathematics, Physics, Engineering, Economics, and Business. Associated careers include all branches of Engineering, Medical Physics, Energy, and Software Development. The vast majority of engineering degree courses require A level Mathematics and Physics.

Destructive testing rig built in school for a student Extended Project Qualification on Applications of Concrete.



#### Recent alumni include:

- 2022 - Jamie Raynard (Physics at Warwick)
- 2021 - Ben Beard: Degree Apprenticeship in engineering
- 2021 - Owen Channon: Economics (St Andrews)
- 2021 - Orren Meredith: Mechanical engineering (Surrey)
- 2021 - Nahim Odud: Mechanical engineering (Exeter)
- 2020 - George Simmons: Economics (Oxford)
- 2020 - Kirsty Atwell - degree apprenticeship
- 2020 - Charlie Valentine - Engineering (Bristol)
- 2019 - Jack Richards: Astrophysics (Exeter)

For further information about the course contact Mr Willis: [swillis@tkasa.org.uk](mailto:swillis@tkasa.org.uk)