THE WORTHGATE SCHOOL
CANTERBURY

COURSE DESCRIPTOR

UFP PHYSICS

SUBJECT OVERVIEW

CATS UFP Physics is a Level 3 course designed to assist international students in transitioning successfully from high school to a UK university, and accounts for some of the challenges that international students may encounter when pursuing a British qualification. UFP Physics not only covers fundamental Physics topics, including Mechanics, Waves, Electricity and Magnetism, Nuclear Physics and Quantum Physics, but also enhances students' other academic skills, such as research, practical analysis and presentation skills.

PRIOR LEARNING REQUIRED

This course is suitable for anyone with a curiosity about how the world works. There is no formal prior knowledge requirement for studying UFP Physics, however students who have studied an equivalent national science qualification (for example a Level 1 or 2 qualification, such as GCSE) would be well prepared for UFP Physics.

IELTS 5.5 or equivalent

EXAM BOARD

CGS

COURSE CONTENT

Module 1: Reporting & Mechanics
Module 2: Energy & Power
Module 3: Waves & Electromagnetism
Module 4: Circular Motion, Gravity & Space
Module 5: Quantum Physics

ASSESSMENT

Formative assessment will take place approximately every six weeks, in the form of end of topic tests.
The final UFP grade is based on three exam papers, one in-class assessment, a Practical Exam and a coursework poster and presentation. Most exams will take place in May and June, apart from Paper 1 which takes place in January. Coursework is completed during the first half of the course and provides students with the opportunity to carry out research on a topic of interest.

Paper	Length of paper	Weighting
Exam Paper 1 – Basics of Physics	20 marks 30 minutes Multiple-choice paper	7%
Exam Paper 2 – Beyond the Basics of Physics	30 marks 45 minutes Multiple-choice paper	13%
Exam Paper 3 – Written Paper	90 marks 2 hours 45 minutes Short-answer and long-answer questions	40%
Coursework	**Marks**	**Weighting**
1	Poster and Presentation Students will create a poster on a title they have chosen from a selection, then present this to the rest of the class	15%
2	Practical Exam	20%

3	Skills Assessment	5%

TEXTBOOKS/REVISION GUIDES

Title	ISBN	Author
Advanced Physics for You	978-1408527375	Keith Johnson, Simmone Hewett, Sue Holt, John Miller
A Level Physics for OCR A Student Book	978-0198352181	Graham Bone, Nigel Saunders, Gurinder Chadha

HIGHER EDUCATION PATHWAYS

Physics will help to enhance your skills in analysis, critical thinking, problem-solving skills and provide a base of theoretical knowledge which is also applicable to areas of Biology and Chemistry. These skills are highly valued by universities and employers. Physics is essential for students who wish to study Physics, Aeronautical Engineering, Chemical Engineering, Electrical Engineering, Mechanical Engineering and Environmental Science. The analytical skills and attention to detail are also valued in professions such as Finance.

Previous students have studied:
University of Bath – Integrated Engineering

University of Durham – Computer Science

University of Leicester – Aerospace Engineering

COMPLEMENTARY SUBJECTS OF STUDY

Maths, Chemistry, Biology.

CURRICULUM DIRECTOR

Ms. Emma Lock