Physics

Course objectives	Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. Physics challenges our imaginations with concepts like relativity and string theory, and it leads to great discoveries, like computers and lasers, that change our lives. Physics encompasses the study of the universe from the largest galaxies to the smallest subatomic particles. Moreover, it is the basis of many other sciences, including chemistry, oceanography, seismology, and astronomy and is essential for further study in engineering and electronics.
Main qualifications	• A Level
Awarding Body	• Edexcel
Other compulsory qualifications	• A Level Mathematics preferred but not essential
Duration/ Lessons per week	• 6 x 50 minutes per week
Standard entry requirements	Physics specific Combined Science 6,6 Triple Science 6,6,5 (6 in Physics & Chemistry) Mathematics: minimum grade 6 English Language minimum Grade 5
Progression opportunities	• The career opportunities available are as vast as the subject itself due, in part, to the transferable skills gained whilst studying physics. Employers see a physics qualification as an indication of someone who will immediately be an asset to the organisation. This is because physics requires the following attributes: • A logical and numerate mind • The ability to solve problems • Communication skills, developed through report-writing and presentations • Computing and practical skills • Teamwork and flexibility (essential for lab work and projects)

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Course content	• The physics specification covers: mechanics, materials, waves, electricity, fields, nuclear and particle physics and cosmology. You will develop your problem solving, practical and communications skills.
Assessment	• When studying physics you not only have to know the concepts, and understand them but be able to apply them to a wide variety of contexts, some familiar and others new. As a consequence you will frequently be asked to test your understanding through completing problems. • A-Level is a linear course assessed via three papers, two worth 30% and one worth 40%. The questions will be in the form of multiple choice, short and extended writing, as well as calculations questions. The papers will test subject knowledge, practical skills and analysis of data. In addition, A-Level will have a pass/fail certificate for competency in practical skills.
Costs	• There may be costs for text and revision books
Additional information	• Opportunities for visits will arise throughout the course
Contact	• Mrs L Card • E-mail: linda.card@ringwood.hants.sch.uk