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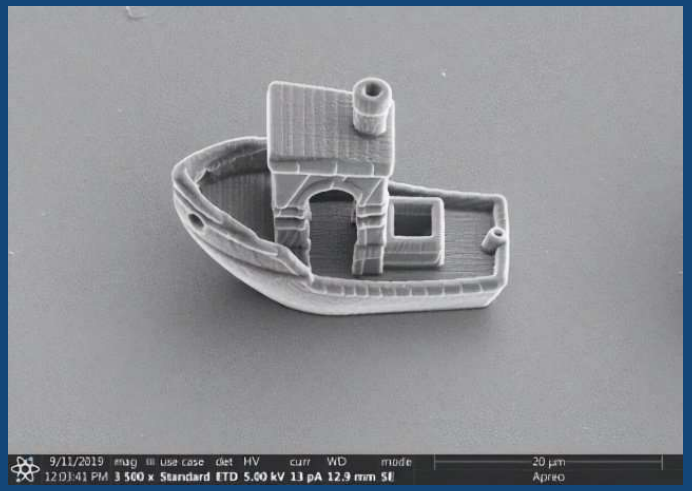

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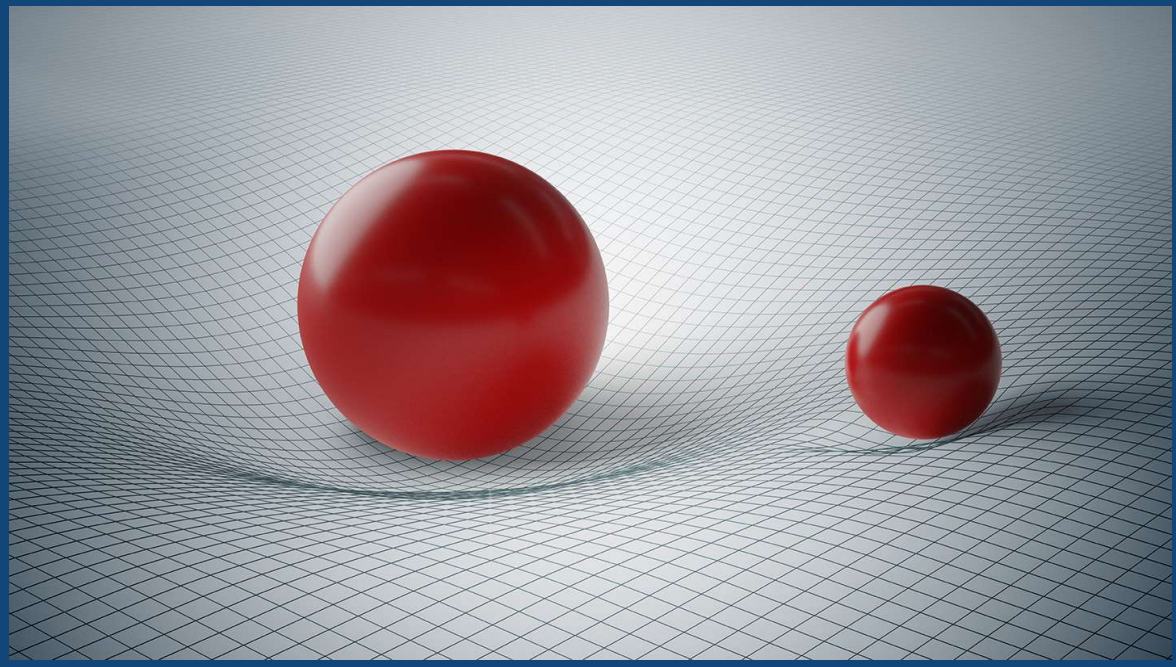

PHYSICS

Edexcel – 9PHO

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This evening we are going to tell you about:

- Course structure
- Assessment
- Extra resources
- Potential degree and apprenticeship routes from this A-Level
- Subjects that work well with this subject
- Potential career opportunities

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Course structure – 2022/23

- Year 12:
- Mechanics
- Electricity
- Waves
- Nuclear and Particle Physics
- Electric and Magnetic fields

- Year 13:
- Materials
- Thermodynamics
- Space
- Nuclear radiation
- Gravitational fields
- Oscillations

Assessment

- Paper 1: 1 hour 45 minutes – 90 marks
- Paper 2: 1 hour 45 minutes – 90 marks
- Paper 3: 2 hours 30 minutes – 120 marks

What Does an A level Physics lesson look like?

- Prior self study – pupils read current topic from their text book
- Remember task: Review previous knowledge and/or skills. Discuss homework.
- Teacher introduces new content. Students make notes and ask questions to clarify their understanding
  - Pupils complete tasks
    - On mini-whiteboards - collaborating together or self-assessing
    - On laboratory equipment - required practical activities eg: determining the wavelength of light from a laser pen
    - On the main board – solving exam problems for the class

Student expectation: For every 1 hr of lesson time, the pupils are expected to do the same amount of time in self study – even if homework is NOT set

100 Minute Lesson Benefits

- More time to get into depth and explore topics.
- More one to one challenging.
- More feedback given.
- More likely to retain the information.
- More time to challenge students understanding.
- Build better relationships.
- Delve deeper into the learning.

What our students demonstrate:

- Accuracy and diligence in their work
- Team working with others in a collaborative and non-confrontational way.
- Attention to detail
- Time management

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Extra resources

- High quality equipment for developing practical skills
- Access to course content via Teams
- Mark schemes for all classroom worksheets
- Links to useful websites that support and challenge physicsandmathstutor.com and isaacphysics.org
- After school masterclasses from RGS

Subjects that work well with Physics

- Maths
- Further Maths
- Product design
- Chemistry
- Computer Science

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Potential Degrees and Apprenticeships

- MEng Aeronautics with Spacecraft Engineering – Imperial College London
- BSc Environmental Science – University of Manchester
- Acoustic Technician Apprenticeship (Level 4) at London South Bank University.

Potential Career Opportunities

- Astronaut - Architect – Automotive technician
- Banker - Bioprinter – Business Analyst
- Construction Project Manager
- Doctor – Dentist – Dairy technologist
- Electrician - Engineer

What our students say:

"I like Physics because I like solving problems"

"Physics explains everything around us"

"Physics will help me in my degree"

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