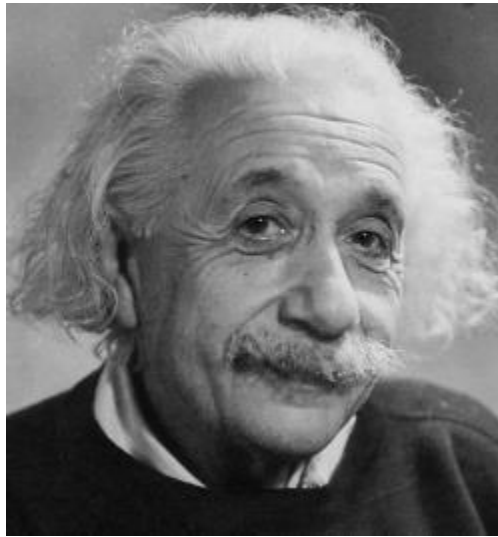


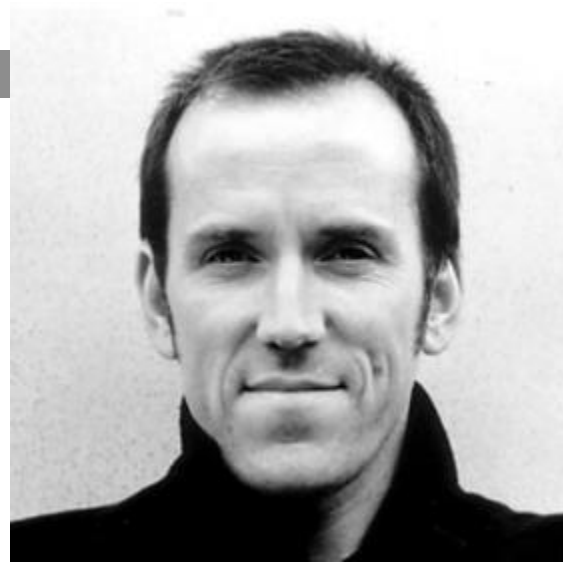


## WJEC A Level Physics Course Outline

# Name the physicist...



# Who's the odd one out





Gravity is optional

CAT PHYSICS

A cat will expand to fill any surface it deems 'mine'



CAT PHYSICS

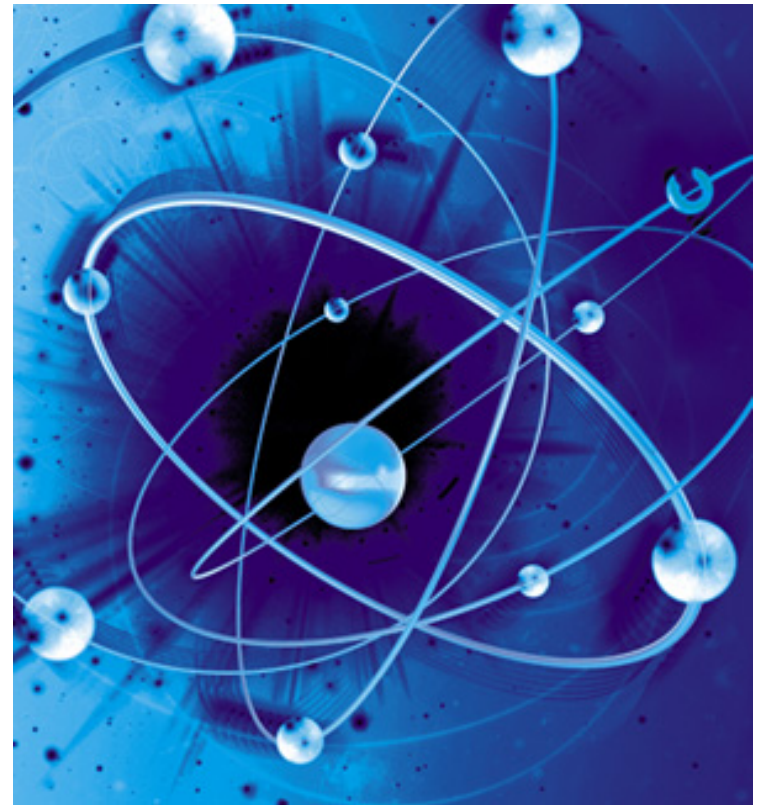
# Why study Physics at A level?

Physics is an important science that is all around us.

Physics provides the key to understanding how the universe works

Physics is stimulating, fascinating and fun!

Physics leads to a wide variety of further study and careers



# What topics do we study at A Level?



## Year 12

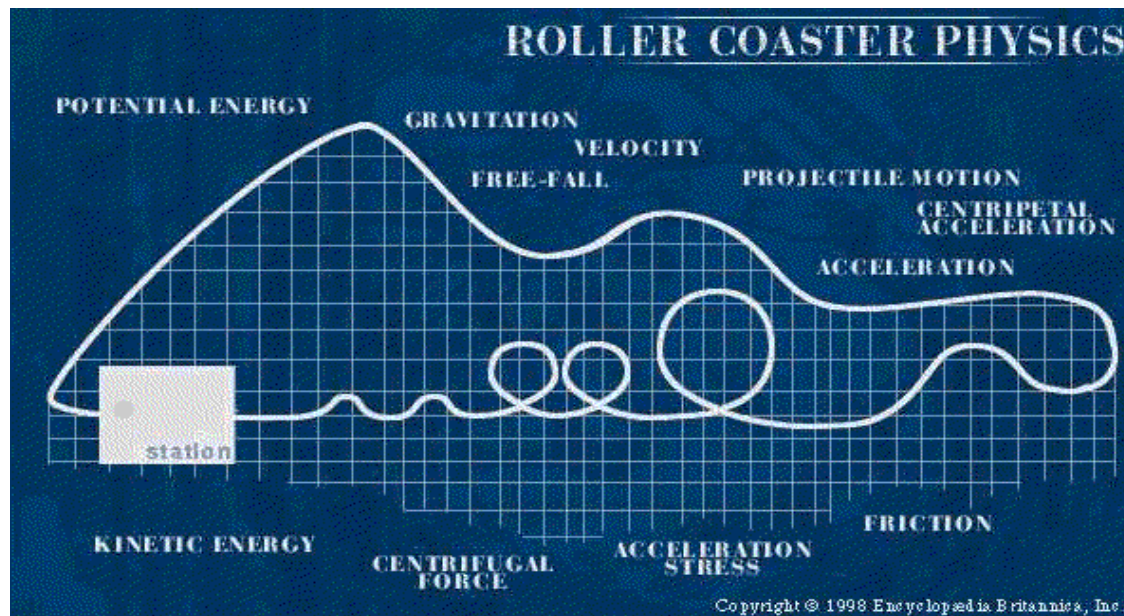
- Motion, Energy & Matter
- Electricity & Light
- Specified practical tasks across the topics

## Year 13

- Oscillations and Nuclei
- Fields + Option topic – Alternating Current, Medical Physics, the Physics of Sports, Energy & the Environment

# Year 12 Assessment

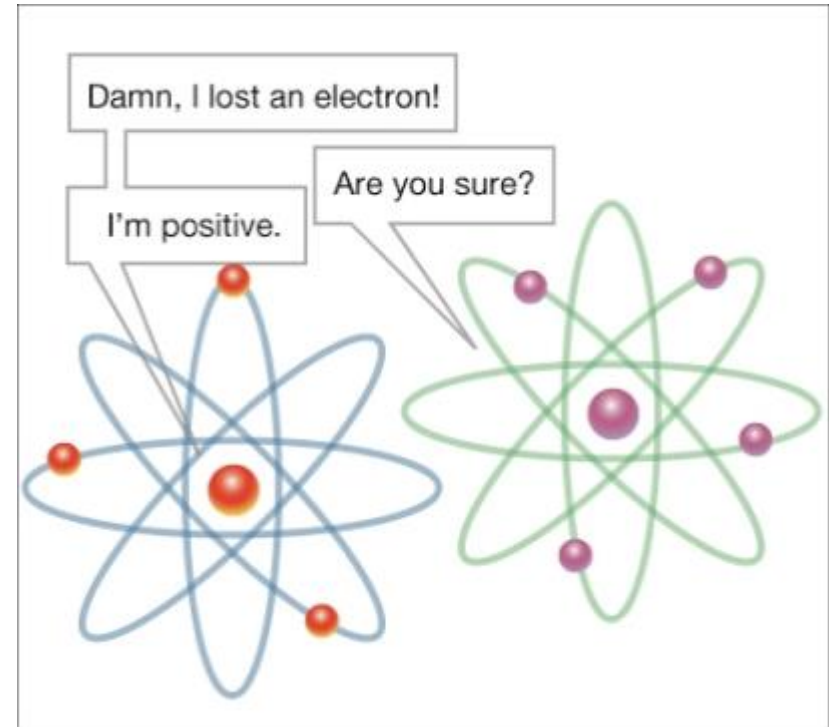
- AS Unit 1 – Motion Energy & Matter (20%)  
AS Unit 2 – Electricity & Light (20%)  
(2 x 90min papers June Year 12)  
Some questions will be based on the Specified Practicals
- AS now only forms 40% of the full A Level.





# Year 13 Assessment

- A2 Unit 3 – Oscillations & Nuclei (2hr 15mins – 25%)
- A2 Unit 4 – Fields & Option topic (2hrs – 25%)
- A2 Unit 5 – Practical Exam Practical Task 5%
- 5% Analysis Task 5%



# Current Groups, Results and Predicted Grades

- Year 12
- 21 students including 5 students from John Frost, Newport High
- Year 13
- 15 students (1 from Newport High)
- Year 12 results – 6A, 4B, 2C, 3D
- Year 13 predictions – 8A, 4B, 2C, 1D

# Monitoring and Target Setting



- Each Unit is divided up into topics.
- Each topic will have a formal Assessment based on WJEC past paper questions.
- Each Assessment will be graded using the WJEC UMS markscheme
- Your AS Target will be based on your GCSE results in Physics/Science and may be changed through the year
- Your A2 Target (that is also your predicted grade for university/college courses) will be based upon your AS result
- Students that fail to reach/exceed their target grades in Assessments will be interviewed by Mr Cogan/Mrs Williams and parents informed immediately.

# What careers or further education could A Level Physics lead to?



- Physics leads to a huge choice of courses in further education.
- Physics is widely respected at university.
- There are a vast number of careers available for Physics graduates – and not just in Physics.
- Physics graduates are needed in all types of industry

# What would I need to study Physics at A Level?



- Either Physics GCSE or Additional Science GCSE – Grade B
- Maths GCSE -Grade B
- Choosing Maths at A level would be a definite advantage, especially if you intend to go beyond AS level.

See you in September...

