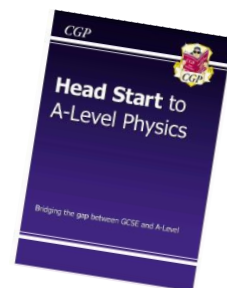


# Physics Discovery List

## Preparing for A Level

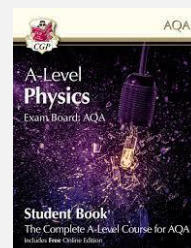
Find and have a look at the [Physics syllabus](#)

- The CGP book, shown on the right will help bridge the gap between GCSE and A Level
- Curriculum Press Worksheets will recap your GCSE work and focus on some of the key skills required for A Level



## Text books

- **AQA Physics, Jim Breithaupt – buy this one.**
- CGP Workbook – useful for practice questions
- A-Level Physics by CGP is also a good text book



## Suggested Reading:

- Big Bang, Simon Singh
- In Search of Schrödinger's Cat, John Gribbin
- Physics of the Impossible, Michio Kaku
- Why don't penguins' feet freeze? – New Scientist
- The Grand Design – Stephen Hawking and Leonard Mlodinow
- The Quantum Universe: Everything that can happen does happen – Brian Cox and Jeff Forshaw
- Six Easy Pieces: Fundamentals of Physics Explained by Richard P Feynman
- Atom (Paperback) by Piers Bizony, Jim Al-Khalili (Foreword),
- Black Holes, Wormholes and Time Machines by Jim Al-Khalili

## Important Scientific Discoveries to Research:

- Herschel's astronomical discoveries
- Faraday's development of the electric motor
- Einstein's explanation of the photoelectric effect and the development of quantum theory
- Rutherford's discovery of the nuclear atom
- Newton's laws of motion
- The discovery of quarks and the particle zoo
- The Higgs' boson

## Places to Visit:

- The Science museum
- The Greenwich planetarium
- CERN, Geneva (with us in January?)

## Physicists to research



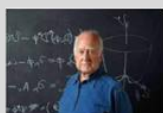
Richard Feynman



Shirley Ann Jackson



Niels Bohr



Peter Higgs



Galileo Galilei



Marie Curie



Chien-Shiung Wu

## Useful Websites:

- <https://s-cool.co.uk/a-level/physics>
- <https://www.nasa.gov/>
- <https://home.cern/>
- <https://www.iop.org/>
- <https://www.youtube.com/user/minutephysics>

## Journals:

- Physics World
- New Scientist
- Nature Physics
- Scientific American