

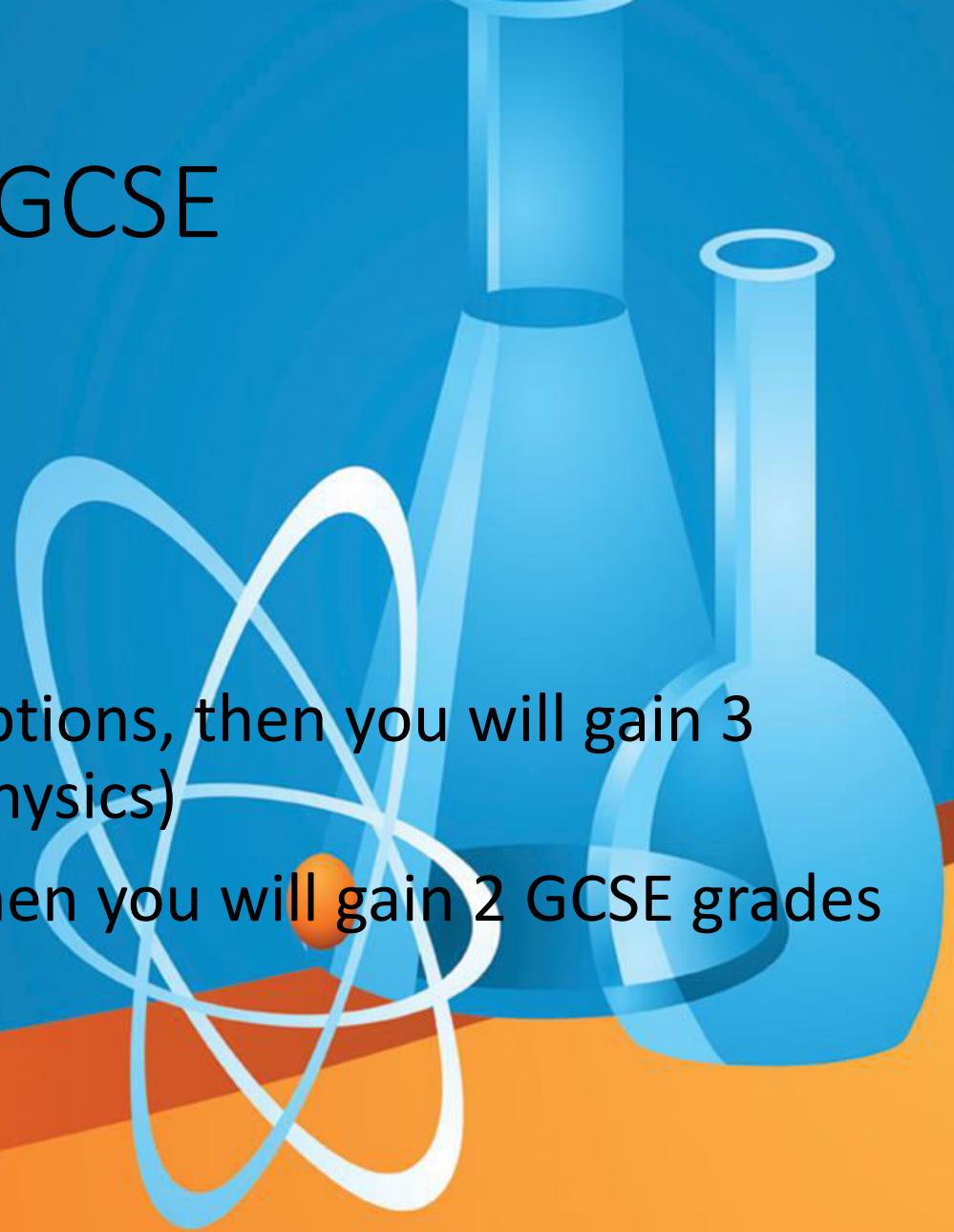
Science at GCSE

2022



Science at GCSE

- Science is a core subject
- All students study Science at GCSE
- You can opt to study Separate Science
- If you choose Science as one of your options, then you will gain 3 GCSE grades (Biology, Chemistry and Physics)
- If Science is not one of your options, then you will gain 2 GCSE grades in Combined Science.



Science at GCSE

- At Hilbre High School, we follow the AQA specification
- There are 7 main topics in Biology for Separate Science
 - 1. Cell biology
 - 2. Organisation
 - 3. Infection and response
 - 4. Bioenergetics
 - 5. Homeostasis and response
 - 6. Inheritance, variation and evolution
 - 7. Ecology



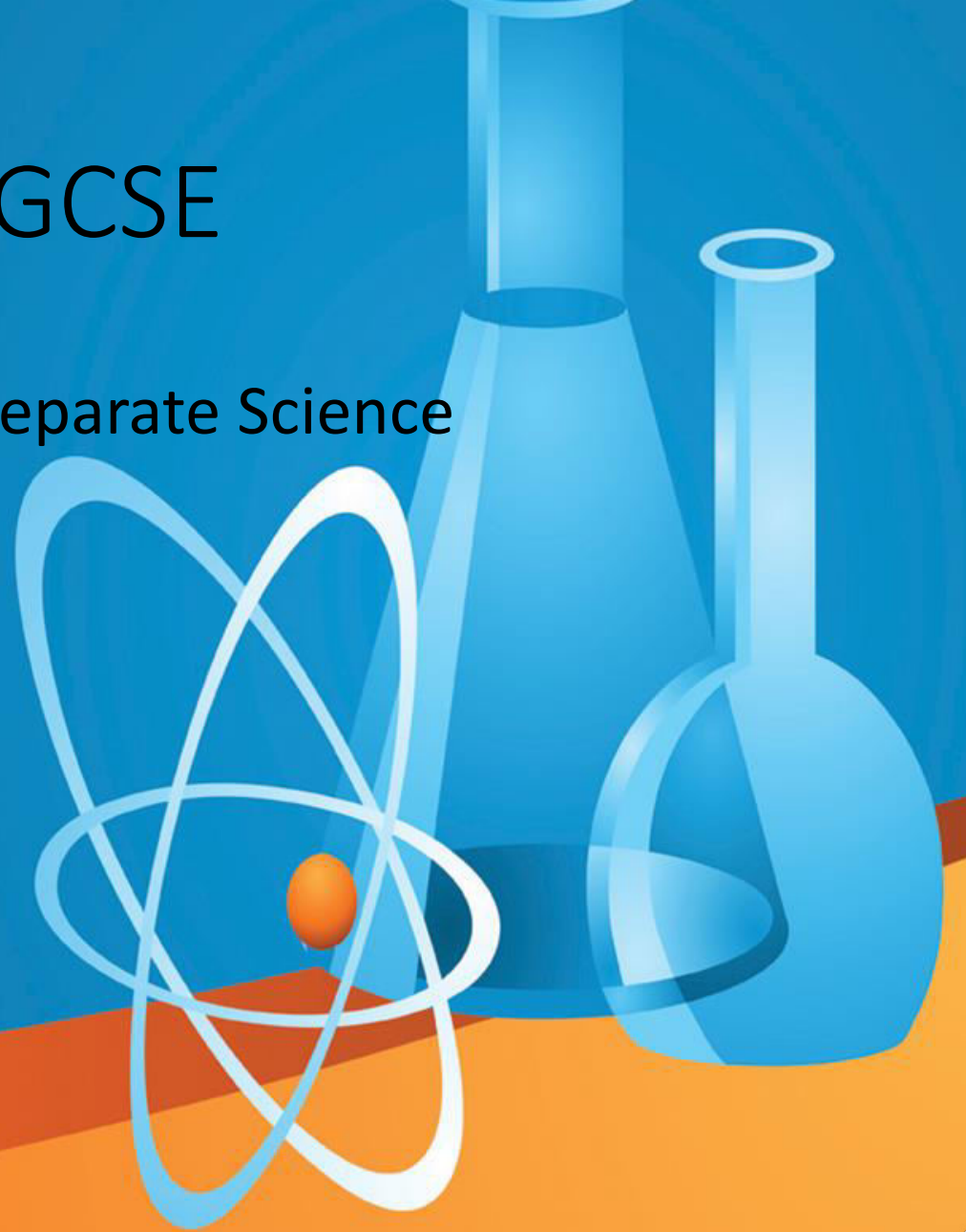
Science at GCSE

- There are 10 main topics in Chemistry for Separate Science
 - 1. Atomic structure and the periodic table
 - 2. Bonding, structure, and the properties of matter
 - 3. Quantitative chemistry
 - 4. Chemical changes
 - 5. Energy changes
 - 6. The rate and extent of chemical change
 - 7. Organic chemistry
 - 8. Chemical analysis
 - 9. Chemistry of the atmosphere
 - 10. Using resources



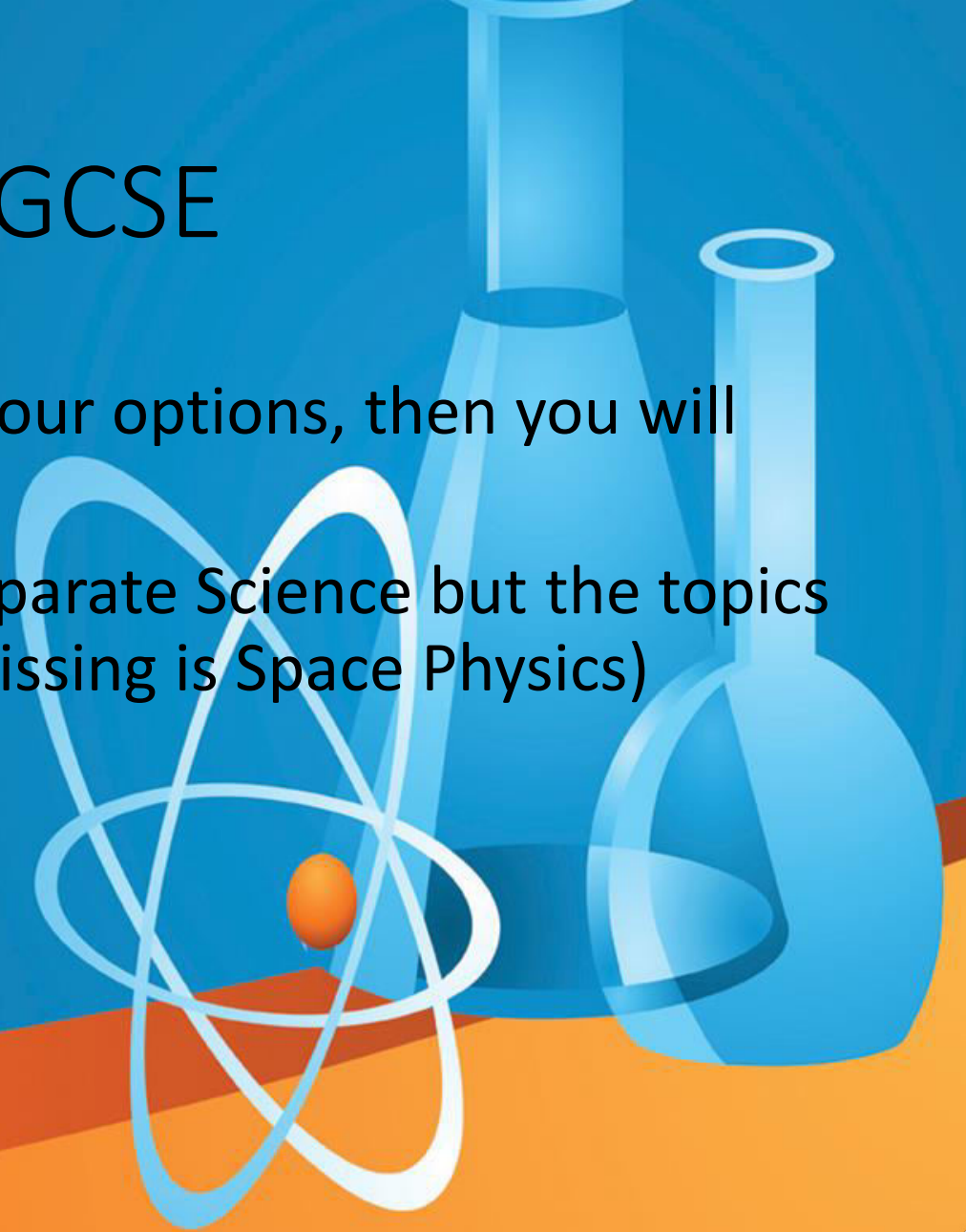
Science at GCSE

- There are 8 main topics in Physics for Separate Science
 - 1. Energy
 - 2. Electricity
 - 3. Particle model of matter
 - 4. Atomic structure
 - 5. Forces
 - 6. Waves
 - 7. Magnetism and electromagnetism
 - 8. Space physics



Science at GCSE

- If you don't choose Science as one of your options, then you will follow the Combined Science route.
- There is slightly less content than in Separate Science but the topics are broadly the same (the only topic missing is Space Physics)



Science at GCSE

- Assessment for Science:
 - Separates
 - You will sit 6 exams at the end of Year 11
 - Each subject has two exams
 - Each exam is marked out of 100 and is 1 Hr 45 m duration
 - Combined Science
 - You will sit 6 exams at the end of Year 11
 - Each subject has two exams
 - Each exam is marked out of 70 and is 1 Hr 15 m duration
 - You will also carry out a number of required practicals over the two years



Science at GCSE

- Studying Science at GCSE opens up so many pathways for your future
- You further develop your skills in problem solving, analysis and investigation via practical work
- If you decide to study Science subjects at a higher level, then it can lead to a wide variety of careers
- The skills you develop through studying Science are highly valued by employers, apprentice providers and higher education establishments

