

Higher Physics – Success Criteria

Formal Assessments:

- ✓ Percentage achieved in Formal Assessments.
- ✓ Consistency shown in Formal Assessments.
- ✓ Areas of strength and areas for development as a result of Formal Assessments.
 - Knowledge and understanding
 - **Our Dynamic Universe**
 - motion — equations and graphs
 - forces, energy and power
 - collisions, explosions, and impulse
 - gravitation
 - special relativity
 - the expanding Universe
 - **Particles and Waves**
 - forces on charged particles
 - the Standard Model
 - nuclear reactions
 - inverse square law
 - wave-particle duality
 - interference
 - spectra
 - refraction of light
 - **Electricity**
 - monitoring and measuring AC
 - current, potential difference, power, and resistance
 - electrical sources and internal resistance
 - capacitors
 - semiconductors and p-n junctions
 - Scientific inquiry and investigation skills
 - carrying out experiments/practical investigations safely, recording detailed observations and collecting data
 - Analytical and problem-solving skills in a Physics context
 - quantifying sources of uncertainty, processing information (using calculations, significant figures and units)

Informal Assessments:

- ✓ Areas of strength and areas for development as a result of Informal Assessments.
- ✓ Consistency shown in Informal Assessments.
- ✓ Structure of answers and examples used in written responses.

Assignment – 20% of overall SQA grade:

- ✓ That I can clearly follow the success criteria for the assignment.
- ✓ Aim
- ✓ Underlying Physics
- ✓ Data collecting and handling
- ✓ Graphical presentation
- ✓ Uncertainties
- ✓ Analysis

- ✓ Conclusion
- ✓ Evaluation
- ✓ Structure

Class/Homework:

- ✓ That I have full and clear notes on all topics covered in the course.
- ✓ I will engage in learning and complete the activities asked of me to the best of my ability.
- ✓ That I respond positively to any advice on homework and try to improve this area.

What will be taken into consideration when deciding on a teacher-estimated grade for Higher Physics?

- Performance in the Formal Assessment(s) e.g. End of Unit assessments/FAB.
 - Weighting – 40% Unit 1, 70% FAB 1, 100% FAB 2
- Performance in the informal assessments, which are ongoing throughout the year:
 - Form quizzes on teams
 - Practice timed questions in class.
- The completion of the assignment (20% of overall SQA grade).
- Commitment and Quality in class
- Commitment and Quality of homework.