

# HAGGERSTON SCIENCE FACULTY

**Chemistry**

**Physics**

**Biology**

# CURRICULUM INTENT

Students are passionate about science and understand the fundamentals of modern scientific knowledge. They are adept at the key scientific skills of critical analysis and data evaluation and can apply it to a wide range of contexts. They are able to pursue science at the next level of education or employment, as suitable to their aspirations.

## **1: High Expectation Leadership**

**Impact: Leaders at all levels systematically evaluate impact using a data led, evidence based approach and drive sustained improvement**

## **2: Outstanding Teaching, Learning & Assessment**

**Lessons challenge all students to engage with demanding content and to produce high quality work**

## **3: Exceptional Outcomes**

**All our students make excellent progress**

# WHAT TO EXPECT – KS3 CURRICULUM

- Four lessons every week where students are introduced to the key concepts of the three main science areas throughout the year.
- Practical's are incorporated into as many lessons as possible to instil a curiosity in students that will allow them to carry out investigations to come to their own conclusions, led by their teachers

# WHAT TO EXPECT – KS4 CURRICULUM

- **Combined Science:** Most students will follow this pathway where they are taught by specialist teachers between 10 and 12 hours every two weeks. At the end of the course students will be awarded a double science GCSE
- **Separate Science:** Students studying this course will study Biology Chemistry and Physics as three separate science GCSEs, and will be awarded three individual science GCSEs at the end of year 11

# WHAT TO EXPECT – HOMEWORK

- Homework for science is done through google classroom.
- This will be in the form of a multiple choice quiz or a piece of extended writing.
- For KS3 each student will have one piece of homework every week which is due the following week.
- For KS4 homework is set for each discipline once every two weeks and there may also be occasions that extra work in terms of revision or completing an assignment is added to this
- Students should submit their work before the deadline on google classroom or on paper directly to the teacher if that is easier

# WHAT TO EXPECT - MARKING

- Self-marking: In science students should be self marking knowledge quizzes in green pen at the beginning of every lesson. Written afl activities should also be self marked and corrected in green pen.
- Formative marking: This will be done in red pen and be purposeful for a specific piece of work including extended writing, written method for a practical, exam questions. Students are expected to respond and use the feedback given to improve on their answers

# ENRICHMENT

- Olympiads
- Ecology field trip
- Lecture visits
- University visits
- CERN visit