



# Chemistry Curriculum Intent

## SKILLS & CHARACTERISTICS

### Resilience

Being able to look at practical results, identify anomalies and carrying out repeats are all essential skills to build

### Collaboration

Lessons involve practical group work to improve lab skills and communication. Pupils understand the importance of discussion and peer review in the scientific community.

### Creativity

Application of knowledge and logical thinking skills are integral to scientific investigation.

## POSITIVE RELATIONSHIPS

All students know that school works for them and in their interests

## ASPIRATION & CAREERS

### Careers (CEIAG)

Medical experience days  
*Careers Fair*  
Work Experience

### Enrichment

Stem club  
*Durham University*  
Chemistry lecture series

### Cultural Capital

Pupils are encouraged to make links between current events, like climate change, and our Chemistry learning in the classroom. All pupils take advantage of our excellent links with the RSC and Newcastle University for off site visits and in-school activities.

## KNOWLEDGE & UNDERSTANDING

Structure and bonding  
The Periodic Table  
Energy changes in reactions  
Rate and extent of chemical reactions  
Organic Chemistry  
Chemistry of the atmosphere  
Chemical analysis