



Pupils identified as Gifted and Talented in Science have demonstrated a particular flair or ability in scientific knowledge and understanding and practical work. In recognising them, we aim to offer them the opportunity to be challenged and given opportunities to develop further their ability, both in their timetabled lessons and in extra-curricular activities.

## Gifted and Talented Selection Criteria

### Practical Work

- ✓ Interest and enthusiasm
- ✓ Engaged focus on task
- ✓ Decides quickly how to investigate fairly and manipulates variables
- ✓ Considers alternative suggestions and strategies for investigations – They may be able to miss out steps when reasoning the answers to problems
- ✓ Use different strategies for finding things out (practically)
- ✓ Works independently and collects appropriate results
- ✓ Uses a range of scientific apparatus competently without support
- ✓ Strives for maximum accuracy in measurements
- ✓ Put forward objective arguments, using combinations of evidence, ideas and other people's questions or conclusions
- ✓ Prepared to take risks

### Knowledge and Understanding

- ✓ Interest and enthusiasm
- ✓ Engaged focus on task
- ✓ Challenge others' or established views and ideas appropriately
- ✓ Shows an interest in one particular area of Science (e.g. genetics, the Periodic Table, astrophysics)
- ✓ Very motivated and prepared to put in extra time
- ✓ Analyses data or observation and spots patterns and anomalies easily
- ✓ Makes connections quickly between facts and concepts they have learnt (or from their own prior knowledge), using more extensive vocabulary than their peers
- ✓ Thinks abstractly at an early age
- ✓ Understands the concepts of reliability and validity
- ✓ May be bored by over-repetition of basic ideas
- ✓ Capable of working independently
- ✓ Prepared to take risks
- ✓ Use different strategies for finding things out (intellectually)
- ✓ Achieve +80% in all end of topic Science tests and assessments KS3
- ✓ Achieve A/A\* in module tests in all Sciences at KS4
- ✓ Achieve A in module tests in Sciences studied at KS5