

Most Able

Subject: Science

| What can students do to further develop their skills in this subject area? | |
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| KS3 | <ul style="list-style-type: none">• Take part in the after Academy Science Club for KS3 that extends the KS3 curriculum.• Take a leading role in learning in lessons – contribute ideas and think critically about what you read and learn.• Research tasks are often set for homework; extend focus on these to bring back to lessons in order to discuss and debate.• Read the news, in particular BBC articles that cover science; these can be found at www.bbc.co.uk/news/science_and_environment.• Listen to the news – have a news app and use it. When science is in the news, carry out additional research around the topic and what developments have recently been made in the science industry.• Take part in competitions where possible. |
| KS4 | <ul style="list-style-type: none">• Volunteer to help run the after Academy Science Club for KS3 that extends the KS3 curriculum.• Take a leading role in learning in lessons – contribute ideas and think critically about what you read and learn.• Research tasks are often set for homework; extend focus on these to bring back to lessons in order to discuss and debate.• Read the news, in particular BBC articles that cover science; these can be found at www.bbc.co.uk/news/science_and_environment.• Additional reading of articles in The New Scientist will extend learning.• Listen to the news – have a news app and use it. When science is in the news, carry out additional research around the topic and what developments have recently been made in the science industry.• Attend after-Academy revision sessions.• Take part in competitions where possible. |
| What websites could students visit to support the curriculum? | |
| KS3 | <p>https://www.sciencejournalforkids.org/ www.natgeokids.com https://www.bbc.co.uk/bitesize www.sciencechannel.com/tv-shows/how-do-they-do-it https://ed.ted.com/lessons?category=science-technology https://www.bbc.co.uk/news/science and environment https://www.nature.com/</p> <p>Watching television programmes such as Planet Earth in addition to documentaries about nuclear disasters/global warming. Watch Stargazing Live.</p> |
| KS4 | <p>https://www.sciencejournalforkids.org/ https://www.gcsepod.com/ https://www.bbc.co.uk/bitesize www.s-cool.co.uk/gcse/chemistry www.bbc.co.uk/education www.rsc.org www.nationalgeographic.com/science www.youtube.com/user/thehealthcaretriage</p> |

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| | <p> www.youtube.com/user/Kurzgesagt www.nuffieldfoundation.org/practical-biology www.sciencechannel.com/tv-shows/how-do-they-do-it https://ed.ted.com/lessons?category=science-technology https://royalsociety.org/ https://www.nhm.ac.uk/ https://www.bmj.com/ https://www.bbc.co.uk/news/science_and_environment https://www.nature.com/ </p> <p>Watching television programmes such as Planet Earth in addition to documentaries about nuclear disasters/global warming.</p> <p>Watch Stargazing Live.</p> |
| How can parents/carers help and what can be done at home? | |
| KS3 | <ul style="list-style-type: none"> • Ask questions about the content of Science lessons and ask your son or daughter to explain scientific concepts to you. • Take opportunities to ask 'What would happen if...?' questions or present brainteasers to encourage your son or daughter to be inquisitive and seek out answers. • Visit places of scientific interest – for example, the National Space Station at Leicester, Eureka and Magna at Sheffield, The Museum of Science and Industry Manchester, The Natural History Museum, The London Planetarium and The Science Museum London (where interactive workshops may be available). • Connect science with holiday activities - visiting zoos, farms, aquariums, discussing nature on a walk or tide patterns when on a beach. • National Trust locations: https://www.nationaltrust.org.uk/woolsthorpe-monor, or Jodrell Bank in Manchester. • Talk to the older generation at home about how science has changed over the years. • Refer to this website for further ideas: www.rigb.org. |
| KS4 | <ul style="list-style-type: none"> • Ask questions about the content of Science lessons and ask your son or daughter to explain scientific concepts to you. • Take opportunities to ask 'What would happen if...?' questions or present brainteasers to encourage your son or daughter to be inquisitive and seek out answers. • Visit places of scientific interest – for example, the National Space Station at Leicester, The Museum of Science and Industry Manchester, The Natural History Museum and The Science Museum London (where interactive workshops may be available). • Visit National Trust locations: www.nationaltrust.org.uk/woolsthorpe-monor, or Jodrell Bank in Manchester. • Encourage your son or daughter to attend after-Academy revision sessions. • Talk to the older generation at home about how science has changed over the years. |