

Year 3/4 pupils – Spies and Secret Agents

Date of course	Times	Venue	Cost	Max. places	Subject
Wednesday 23 rd June 2021	9.30am – 3.30pm	Braeside Education Centre	£60	15	Science AGAT

Course details

A popular day course featuring an exciting mix of radio, bugs and lots of fun!

The day begins with an exploration into the mysterious world of spy transmissions and encrypted messages. Students will become expert at understanding encryption techniques – the different ways of coding a message so that it can only be understood by the intended recipient.....or can it?

To reinforce their learning, students are recruited by MI99 and become special agents for the afternoon, taking part in a large practical spying mission and using their new-found skills to hunt down top secret electronic circuit boards that have been stolen from a government establishment.

Guidance criteria for identifying participants:

- Pupils should have an interest in physics and an enquiring mind.
- Pupils will need to be able to work confidently, both individually and in small groups.
- Pupils must show the aptitude to translate theory into a practical application.
- Pupils must want to share the academic and practical challenges of the course – and the fun!

Course tutor

Adrian Dening has over thirty years' experience in delivering science courses for Able, Gifted and Talented students. He offers a wide range of topics exploring electronics, ICT, space science and even spying! He is a keen Amateur Radio enthusiast and astronomer. Adrian is an Approved Driving Instructor and member of the Chartered Institute of Personnel and Development. His G&T courses are challenging, with a balance between theory at a high academic level and fun practical exercises to consolidate what has been learnt. All courses include the assessment of written work and note-taking, providing the basis of feedback to parents. The courses involve a mix of individual and group activities and students are actively encouraged to explore different learning styles, take responsibility for their own time management and think "outside the box". A full portfolio of Adrian's courses is available at <http://www.AdrianDening.com>

As a result of attending the course you will have:

- A greater understanding of communications technology and cryptography.
- Worked successfully in a group with your peers, experiencing leadership and negotiation skills.
- Been responsible for accuracy in the use of radio communications and code-breaking.
- Enjoyed new challenges and shared your knowledge with new like-minded friends.

Students will not be required to bring any specific materials with them as all necessary resources will be provided.

Lunch and refreshments are provided.

School uniform is not required.

No mobile phones.