

## Year 5/6 pupils – Hi-Tech Spies

Dates of course	Times	Venue	Cost	Max. places	Subject
Wednesday 29 <sup>th</sup> January 2025	9.30am – 3.30pm	Braeside Education Centre	£60	16	Science AGAT

### Course details

A popular day course featuring an exciting mix of espionage, radio, bugs and lots of fun! The day begins with an exploration into the history of spying and the mysterious world of codes and ciphers. Students will become an expert at understanding encryption techniques – the different ways of scrambling a message so that it can only be understood by the intended recipient.....or can it? Then we will look at secret radio transmissions and learn how messages can be sent to a spy operating on a covert mission. The course concludes with all our newly trained MI99 field agents experimenting with a selection of radio bugs to eavesdrop on other parts of the building.

### 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 five 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. He is the Technical and Training Director of Radio Ninesprings, a local community radio station and produces a weekly astronomy program for them. 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. 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 should bring:

- Pencils / pencil case
- Water bottle
- Clothes suitable for outdoor play

**Lunch and refreshments will be provided.  
School uniform is not required. No mobile phones.**