

### **Gifted and Talented Children**

What do we mean by 'gifted and talented'? Dorset LEA defines very able and gifted children as:

*... children who have ability or abilities beyond the large majority of the children in the school and who consequently require more challenging teaching and opportunities.... Their potential will be shown in any or all of a wide range of contexts such as different learning styles, creativity or leadership.*

(Dorset LEA Policy for Very Gifted Children, Feb 2003)

All schools are now required to identify their gifted and talented children, and ensure that their needs are met through supplementing the curriculum with additional opportunities and enrichment activities.



### **Leeson House Field Studies Centre**

Here at Leeson House, we provide a range of enrichment courses designed specifically for these, gifted and talented children. Courses generally run over weekends, although some may take place during the week. The price of each course includes accommodation, food, tuition and most materials.

The courses are open to children from any school, but we do ask that the child's school complete an endorsement confirming that they would be suited to the intensiveness and subject matter of the course.

The content of the courses is intended not only to support and enrich the National Curriculum, but also to extend outside of it into other areas. All the teaching staff are experts in their field, and with working with gifted and talented children.

Leeson House has been providing residential experiences for children for many years, and the staff here are practised in easing the worries of those children away from home for the first time, along with caring for all who stay with us. Where possible, friends are put together in bedrooms, providing it has been requested on the application form.

**Places are limited, so please book early to avoid any disappointment!** Feel free to phone the centre on 01929-422126 if you have any queries or concerns.

***The Dorset programme for gifted and talented children offers you an opportunity to be part of the exciting residential course:***

## **“Maths: Unlocking Nature’s Mysteries”**

***A course for keen mathematicians who are interested in maths place in the natural world.  
(for students who will be in Yrs 6 to 8)***



**At Leeson House, near Swanage  
On Monday 25<sup>th</sup> to Tuesday 26<sup>th</sup> July 2011**

**£75 ALL INCLUSIVE**

**Course Director & Tutor:  
Martin Crozier BSc PGCE CMath CSci**



## “Maths: Unlocking Nature’s Mysteries”

This course introduces three ideas regarding mathematics and the natural world:

Maths in Nature: How do the ideas of Fibonacci, Euclid and Da Vinci help us to understand the secrets of nature? What is the Golden Ratio and its relationship with nature.

Maths to create Nature: Nature is a very complicated thing. How can we use mathematics to create nature? This is an introduction to Fractal Geometry, true beauty created from mathematical simplicity.

Maths in the outdoors: How can maths be used to help with problems in navigation? This section is an introduction to Pythagoras’ Theorem, bearings and trigonometry.

The course will run from 10am on Monday 25<sup>th</sup> to 4pm on Tuesday 26<sup>th</sup> July 2011. There will be a presentation of the work undertaken during the course at 3pm, to which all are welcome.

### **The course will be led by Martin Crozier.**

Martin is Head of Mathematics at Leweston School in North Dorset. He is a member of the Institute of Mathematics and its Applications and has Chartered Mathematician and Scientist designations.

Martin has a particular fascination for fractal geometry and enjoys working in the outdoors as he is a Scout Leader.

### You will need:

Geometry Set (Rule, Protractor, Pair of Compasses)

Calculator with trigonometric capability

A Smile ☺

In addition to these you will need to bring clothing and footwear suitable for a local walk including a light waterproof coat but please also pack sun cream and a good sun hat! A full list will be sent with the pre-course information pack about 1 month before the start of the course.



### **Leeson House Field Studies Centre**

Leeson is an historic house situated on the Isle of Purbeck in Dorset - an Area of Outstanding Natural Beauty. The local landscape encompasses hills, heath and the Jurassic Coastline – a World Heritage Site – all derived from the local and wide-ranging geology. Sites such as Corfe Castle, Arne Nature Reserve and the Purbeck Hills all provide inspirational settings for both physical and academic activities.

Facilities include 2½ hectares of ecologically managed grounds, a games field, classroom, laboratory and library, and a large games room. Accommodation is in dormitories, with separate shower and toilet facilities. Staff will be resident close by in the house during all overnight courses.

Leeson works within Dorset LEA’s guidelines for safety during offsite and residential visits. All staff are checked via the Criminal Records Bureau, as are any visiting teaching and

support staff. All security measures have been taken to ensure the safety of students whilst staying at Leeson House.