The cLc Learning Platform is supporting teaching and improving learning outcomes in schools around the world. These Best Practice examples enable teachers to share experiences, ideas and recommendations to support and aid other teachers tackling the same challenges.

Find more cLc Best Practice along with curriculum maps and 'How To' guides & films at www.clcsuccess.com

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School: Medway Schools across the local authority area	**LA:** Medway
Teacher: Andrew Morley & Moya Dean	**Students:** All Age Ranges
Contact: andrew.morley@medway.gov.uk & moya.dean@medway.gov.uk	
Learning Focus: To encourage collaboration & communication in Numeracy, Literacy, Art, Music, D&T & ICT.	
Curriculum Focus: Numeracy, Literacy, Art, Music, D&T & ICT	
Tools used: 🏠 Homepage, 💬 Forum, 📄 Custom Pages, Wiki, Quiz	

Welcome to the home page of the Medway Gifted and Talented Project based on the Fibonacci Numbers.

This flower has 13 petals

This flower is a daisy which has 21 petals

Fibonacci flowers
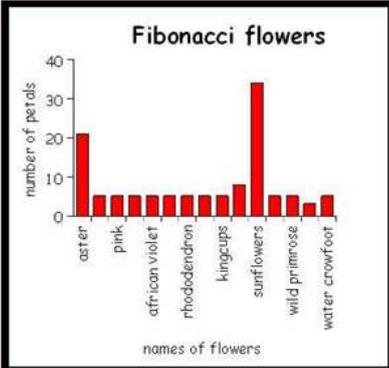
We wanted to find out what the most frequent number of petals on flowers was. We looked at flower books and made a list of flowers. We counted the petals and wrote the numbers down. Next we typed the flower names and numbers of petals into a spreadsheet program and made a chart. We found out that the most frequent number of petals is five.

http://www.discoveredartists.com/uploadedImages/188/717/lightbox_Mac_Tracy_Fibonacci.jpg

1	I
1	am
2	working
3	on my own
5	and I am writing
8	some Fibonacci poetry
13	I am now investigating nature and numbers
21	Fibonacci is used in maths music architecture art as well as poetry

1: My
1: name
2: is Ben
3: and I am
5: writing a poem.
8: My poem will be based on a
13: man called Fibonacci who made the astonishing
21: number sequence we know as the Fibonacci sequence, which is applied to lots of
34: things all around the world from flower petals to rabbits and bees family trees. From fingers and toes to Saturn's rings and a butterfly's wings.
55: So as I come to the end of my poem, look at this and think oh he is clever maybe I could make one of these poems. But remember you won't beat the fifty-five syllables in my poem and please DON'T COPY ME!!!

How this worked in practice: This was a pilot project to look at a different model for collaboration following the How Green is your School project. Medway LA hub hosted the project and invited 6 Medway schools to take part – an infant, a junior, a primary, a boys' Grammar, a girls' High and a mixed comprehensive. Two gifted and talented children from each school were identified and asked to take part. The 12 children and their accompanying teacher met for a morning to launch the project and a morning to close the project three months later. In the intervening time they worked in school, supported by two sessions from an AST and collaborating with each other using the forum and the wiki. The children were asked to create a multi media package about Fibonacci numbers which could be used in schools to support other G&T children. A basic wiki was provided

to kick start the project with examples of how Fibonacci numbers are found in maths, poetry, art, architecture, nature, music, literature and popular culture. A forum for all the children was created to encourage collaboration, sharing of experiences and a supportive discussion space. They were invited to add to the wiki with their discoveries.

By the end of this sequence of work children had developed skills in:

Literacy: Writing, Reading

ICT: Word processing (Forum and wiki editing) creating videos using Photostory and Movie Maker, Uploading Images and Videos to the cLc; Internet Research, use of graphs in Excel

Social Skills: Communicating and collaborating with an audience with a wide range of age and ability

Cross Curricular Topics: Because Fibonacci numbers can be found in such a wide range of subjects, children were encouraged to look at a variety of areas and to comment on as many as possible. It was seen as a very positive way of encouraging the transfer of knowledge across the curriculum.

Next Steps: The project is due to be relaunched in June to any interested schools and will run from September – December 2010. The model for the pilot was discovered to be less successful than that used for How Green. When it is relaunched, the Fibonacci project will be done so as a series of 6 fortnightly challenges - each based around a different aspect of the Fibonacci numbers.