

THE TRANSFORMER



INNOVATE



RESEARCH



SUPPORT



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ACHIEVE



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Welcome to the Autumn 2020 issue of The Transformer ... the GLOW Maths newsletter.

Thank you for everything you are doing for the children and young people across Gloucestershire and Worcestershire to enjoy and achieve in mathematics, especially during these challenging times.

It's wonderful so many schools and teachers have signed up to get involved with our professional development opportunities - Work Groups and POWWOWs. Over 500 teachers have already got involved with our Work Groups - 'virtually' of course - and a huge thank you to the 130+ teachers who have got involved with our Autumn Term POWWOWs - ranging from the DfE Primary Non-Statutory Guidance, Rosenshine's Principles, Cognitive Load at A level, Primary Mixed Age Planning and EYFS.

Please do get in touch with suggestions for the Spring and Summer Terms POWWOWs.

A great deal of work has gone into adapting Work Group and POWWOW sessions so that they can run online and new materials have been produced by our amazing team of Local Leaders of Maths Educations (LLMEs). More details about the GLOW Maths team can be found on Page 2.

We are grateful for your continued support. Details how you can still get involved online next term can be found on Page 2, if you feel you have the capacity. It is important, first and foremost, colleagues continue to prioritise their own wellbeing, their loved ones and school community before engaging with Maths Hub activities.

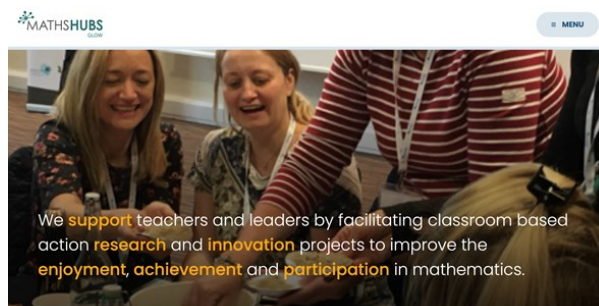
The GLOW Maths team wishes everyone a safe ChrisMaths ... and if it is possible, why not have a go at the GLOW Maths ChrisMaths Tree Challenge? See Page 2 for further details.

Steve Lomax
GLOW Maths Hub Lead



CHECK OUT OUR NEW WEBSITE

The GLOW Maths Hub website has had a makeover !!!



The website has been split into 6 easy to navigate sections including:

- **Home:** All the latest info
- **Our Hub:** Find out more about the GLOW Hub, the GLOW Team, key dates and much more
- **Work Groups:** Important information about how to get involved in 2020/21, information for Work Group participants and what actually is a Work Group!
- **Events:** All the information you need about upcoming events such as POWWOWs, MathsFEST and TeachMeets
- **Teaching for Mastery:** All the answers to the key questions: What is Teaching for Mastery? How do I get involved? ... plus the GLOWMaths Teaching for Mastery Toolkit
- **#YesUCan:** Find out more about the nationally and internationally ground breaking #YesUCan work of the GLOW Maths Hub.

A huge thanks to Jo Newman for redesigning the website - we hope you find it useful!

Check it out at www.glowmathshub.com
Don't forget you can also follow GLOW Maths on Twitter - @GLOWMaths





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GET INVOLVED

We are still recruiting for the following workgroups:

- Specialist Knowledge in the Teaching of Mathematics for:
 - Early Years Teachers
 - Primary Teachers
 - Teaching Assistants
- Teaching for Mastery in the Mixed Age classroom
- Secondary NQT/RQT Support
- Developing A Level Pedagogy

Go to www.glowmathshub.com > Work Groups for more information and booking details

MEET THE TEAM

The GLOW Maths Hub Leadership & Management Team

Elizabeth Cullis	GLOW Maths Hub Senior Lead
Steve Lomax	GLOW Maths Hub Strategic Lead
Anthony Mitchell	GLOW Maths Deputy Maths Hub Lead
Catherine Atkinson	GLOW Maths Head Teacher Advocate
Rachel Swift	GLOW Maths Hub Co-ordinator
Jo Newman	GLOW Maths Hub Administrator

GLOW Maths Hub Teaching for Mastery Leads

Polly Kelly	Glenfall School
Steve Lomax	Balcarras Teaching School

Dave Bowman

GLOW Maths Hub Level 3/Post 16 Lead

Dave Bowman

GLOW Maths Hub Primary Mastery Specialists

Martin Adsett	Swindon Village Primary School
Louise Seeley	Glenfall Primary School
Natasha Hannaway	Grange Primary Academy
Maxine Perryman	Fairford C of E School
Helen Bowen	Lickey Hills Primary School
Sue Jones	Meadow Green Primary School
Jen Thomas	Steam Mills Primary School
Matthew Wheeldon	Field Court Junior School
Ed Neale	Dursley Primary School
Anna Knight	Kingswood Primary School
Gavin Pugh	Ampney Crucis C of E Primary School
Joanne Lane	Stourport Primary School
Farzana Khan	Astwood Bank Primary School
Ione Haroun	St Whites Primary School
Sarah Green	Great Malvern Primary School
Tom Hennessey	Kingsholm Primary School
Natasha Barnes	Catholic School of St Gregory The Great
Dot Seabrook	St John's Primary School
Kathryn Ralley	Waterwells Primary School
Denise Smith	Chawson Community First School
Kate Jones	Lick Hill Primary School

GLOW Maths Hub Secondary Mastery Specialists

Pippa Baker	Balcarras School
Amanda McKay	Churchdown School
Rustam Hemsley	Cheltenham Bournside School
Steve Harvey	Wolverley Secondary School
Sam Brace	Christopher Whitehead Language College
Rhiannon Rainbow	Five Acres High School
Sara Emson	Hanley Castle High School
Erin Butler	Bishop Perowne College
Rachael Willerton	Churchdown School
Hollie Toghil	Arrowvale Academy
Natasha Rossiter	Wyedean School
Jim Dee	Cotswold School
Rebecca Taylor	Baxter College
Kim Anderson	Maidenhill School
Carrienne Stares	Chosen Hill School
Amy Hickson	Cleeve School
Iliana Petrova	Belmont School

GLOW Work Group Leads

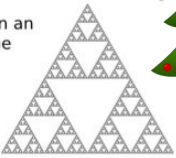
Beth Hounsell	Meg Manning
Beth Keenan	Pinky Jain
Christine Watson	Jackie McNeil
Kate Wood	Will Denham
Jane Moreton	Ruth Hollier
Emma Howell	Jamie Sansom
Michelle Walton	

TIME FOR SOME CHRISMATHS!

think-maths.co.uk THINK MATHS

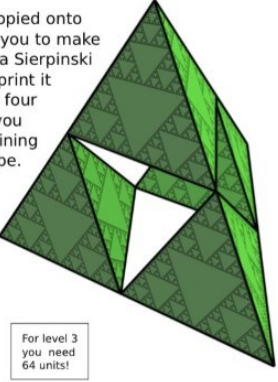
Sierpinski Tetrahedron

A Sierpinski Triangle is a fractal based on an equilateral triangle, made by dividing the triangle into four smaller triangles, removing the central triangle and then repeating for each of the three remaining triangles. If you repeat this process forever, you get a fractal.



You can make a 3D version of the Sierpinski triangle - it's a tetrahedron (a shape with four triangular faces) made up of four smaller tetrahedra, with an empty space in the middle.

The attached sheet can be copied onto A3 or A4 card, and will allow you to make two tetrahedra, printed with a Sierpinski triangle on each face. If you print it twice, you'll have enough for four tetrahedra, which will allow you to make one larger one by joining them at the corners using tape. To make the next level up, make four of these larger tetrahedra and join them at the corners in the same way.



Level 1
4 units

Level 2
16 units

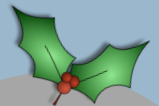
For level 3 you need 64 units!

**What shape is the space left in the centre of your Sierpinski tetrahedron?
How many units would you need to make a tetrahedron 10m high?**

Resources and further inspiration can be found here: <http://www.think-maths.co.uk/festive-fractal-trees>



Tweet out your photos using #ChrisMathsTree



**HAPPY CHRISMATHS
FROM THE GLOW TEAM**

**LOOK FORWARD TO
WORKING WITH YOU IN
2021**