



Secondary and Post-16 Newsletter

Christmas Edition 2020

It is that time already... Christmas!

This year may not have been the year we all planned and hoped for but we would like to end the year on a high. We are so thankful to all schools and teachers in our region for your continued engagement in these uncertain times - it is simply amazing. We have in excess of 150 Primary and 30 Secondary schools engaging with our Teaching for Mastery Work Groups. We continue to receive daily sign ups to other Work Groups that we will be running across all phases from Early Years right through to A-Level.

Furthermore, we continue to have high attendance at our Network Meetings and your presence and contributions both support and inspire us at the Hub. It is a testament to schools, the sheer commitment, to continue to engage in development for their staff in order to get the best outcomes for their pupils.

This Christmas edition newsletter has some very exciting announcements, Work Groups that are still available to join and also materials you may find useful.

From everyone here at the South Yorkshire Maths Hub, we want to wish you a truly wonderful Christmas and a Happy New Year! See you all in 2021.



Contents

- Thank you LLMEs
- Secondary CPD Materials
- LLME meeting
- A Christmas Question for Secondary
- A Christmas Question for A-Level
- Research and Innovation Work Group
- Contacts

Thank you LLMEs

A BIG thank you to our whole team has to be shared. It may have been a long, hard and very strange start to the academic year in so many respects but the work that has been done and is being planned by you is a real highlight. The only reason we are able

to share and offer the amount of support and work we do is down to your commitment and we simply could not do it without you all; for that we are truly grateful for.

We are grateful for the fact you all provide an element of normality in a chaotic world despite the fact that you are living with the same pressures and huge strains on your workload. In times where people have felt isolated and uncertain, you have been there to offer your support. This shows your dedication to the Hub and to supporting and developing your colleagues in other schools in South Yorkshire.

Thank you so much, we wish you a safe and calm end to term and a fantastic and restful Christmas.

Secondary CPD Materials

As you may know, Maths Hubs are coordinated by the NCETM. Like us, they have revamped their website and there are many new additions in terms of resources that can be used both in the classroom and within your department. Since there have been a number of recent additions, we thought it would be timely to signpost some of the resources on the NCETM site. Some of these collections are complete, others* are partially complete.

Departmental Workshops:* Plans and handouts for 1-hour PD sessions based on key content.

Planning to teach:* Videos (with accompanying documents) of experienced teachers talking through how they plan to teach pivotal content.

KS3 PD Materials: Detailed documents breaking down the KS3 curriculum into core concepts, with exemplification of a range of key ideas.

Mathematical Prompts for deeper thinking: Resources and plans for PD sessions based on video clips of a teacher using questions from the KS3 PD materials with a small group of students.

Using representations in KS3: Guidance documents and videos explaining how different representations can be used.

Adapting teaching for the Covid period: Evidence-based guidance designed to support and inform discussions in maths departments and with senior leaders, regarding both curriculum content and pedagogy.

Shaping the Year 7 curriculum: Ready-to-use materials, ideal for use in planning effective curriculum transition from primary.

If you like the look of them but have any questions in how best to implement them, please contact Vicci Marshall, Secondary Lead, at vmarshall@symathshub.org.uk

LLME Meeting

On Thursday 3rd December we held our first Local Leaders of Maths Education (LLME) meeting of the year. It was so wonderful to see our whole team of LLMEs back together and everyone's faces - 'virtually' of course! The session started off with some music and a festive ice-breaker activity and then moved into a packed agenda where we looked at how to enhance our CPD delivery through effective



use of technologies. Vicci Marshall, our secondary lead, shared national training on a programme called Desmos and Michelle Knott, our Primary Lead, shared the findings of last year's Research and Innovation Work Group by sharing an line platform for exploring manipulatives. Both platforms will help us enrich our work group delivery, especially as we are currently fully online.

A Christmas Question for Secondary!

All the words in the Snowman language consist of exactly seven letters formed from the letters {s, no, wm, an} arranged in some order where the paired letters cannot be separated.

For example ``snonono" and ``ssanwm" are words in the language but ``ssmwan" and ``ssawmn" are not.

How many words are there in the Snowman language?

Find out the answer by emailing admin@symathshub.org.uk

A Christmas Question for A'Level!

Rearrange this equation to reveal a Christmas message

$$y = \frac{\ln\left(\frac{x}{m} - sa\right)}{r^2}$$

Find out the answer by emailing admin@symathshub.org.uk

Research and Innovation Work Group

Starting in January there will be a Research and Innovation working group looking at developing use of dynamic geometry software, like Geogebra, for remote learning. This is an exciting opportunity to expand your own knowledge of the software and combine this with ideas from current learning models.

As part of this working group participants will produce resources that maybe used remotely by students, including those who are isolating or trying to catch up.

All meetings happen after school, participants will be paid £500. Please contact jmendes@utcsheffield.org.uk for more information.

Contacts

If you are interested in finding out more about your school's options please do get in touch.

Vicci Marshall (Secondary Lead) – vmarshall@symathshub.org.uk

Vicki John Lewis (Maths Hub Lead) – vjohnlewis@symathshub.org.uk

Michelle Knott (Primary Lead) – m.knott@ecmtrust.co.uk

Tara Webster (Maths Hub Coordinator) – admin@symathshub.org.uk

Data Privacy

Newsletter registration

We collect and hold data of individuals who have registered to receive e-newsletters we send as part of our role in coordinating the South Yorkshire Maths Hub. The data includes name, school and email address. This data is used solely for distribution of newsletters and Hub related communication and is not shared. Personal data held for the distribution of newsletters will be retained until such point that you contact us to request that we remove your data from this list.

If you have any questions or concerns around our privacy policy please contact admin@symathshub.org.uk or data@notredame-high.co.uk