**York St John University - Primary Mathematics**

The mathematics team are looking forward to working with you over the coming year. In preparation for the first session, please engage with the following tasks:

1. A review of your confidence of mathematical knowledge across various areas of the Primary National Curriculum. This is through an online survey found at the following link: <https://yorksj.eu.qualtrics.com/jfe/form/SV_4J9iZJXNkwlS8Z0>

Please complete this by Monday 16th August 2021.

1. Develop fluency with multiplication and associated division facts to 12 x 12 considering the connections between concepts as outlined in the diagram ‘If I know… then I know…’ This can be found at the following link:

<https://www.canva.com/design/DAEBO0Wlnk8/xdEWPM_rHxjwg_2C2sEnsQ/view>

1. Read the article by Jo Boaler ‘Fluency without Fear: Research Evidence on the Best Ways to Learn Math Facts’ at the following link <https://www.youcubed.org/wp-content/uploads/2017/09/Fluency-Without-Fear-1.28.15.pdf>

Please read pages 1-8 (and have a go at the games if you’d like to). Make a note of any key points that are of interest to you and of any questions you have. Does anything surprise you? Do you agree with any of the points made? We will discuss these ideas in the first session together.

Once enrolled you will have access to a wide range of online resources. A book that many PGCE students have found very helpful to buy in the past is a text by Derek Haylock - now in its 6th edition. This most recent edition is accompanied by a workbook which you might also find helpful. For those focused on EY/KS1, the text by Haylock and Cockburn (5th edition) is also recommended. These books develop your own subject knowledge and your understanding of how children learn.

Haylock, D. (2019) *Mathematics Explained for Primary Teachers*, 6th ed. London: SAGE.

Haylock, D. (2019) *Student Workbook. Mathematics Explained for Primary Teachers*, 6th ed. London: SAGE

Haylock, D. and Cockburn, A.D. (2017) Understanding Mathematics for Young Children

A Guide for Teachers of Children 3-7, 5th ed. London: SAGE

If you’d like to explore mathematics further, these websites might be of interest to you:

* Maths is fun <https://www.mathsisfun.com/>
* BBC Bitesize <https://www.bbc.co.uk/bitesize>
* NRICH <https://nrich.maths.org/>
* NCETM https://www.ncetm.org.uk/