

## Home Learning – Friday, 5 March

Oh my word! You've done it! The final day of this round of Home Learning! Before you go any further, take 5 minutes to look through ALL of the Home Learning you've done since January. An AMAZING achievement. You are officially a 100% SUPERSTAR!

For now though, for one final time...

**Maths:** subtracting fractions with a different denominator

<https://www.loom.com/share/4dfcad550c044cab8559fd3f7c1b67e2>

It's just like adding fractions with different denominators, but this time you find the common denominator and then subtract the numerators.

**English:** World Book Day live event

<https://www.loom.com/share/bc62d422f763482482dd6f765e51fa50>

Watch this at 10.30 this morning: <https://www.worldbookday.com/event/books-and-the-real-world/>

My advice is to try logging on about ten minutes before it is due to start. It will be recorded so you can watch another time if you are busy doing something else.

**Some engineering fun to finish the week:**

<https://www.loom.com/share/ea5acd3c3df6491d9cc59bcb39203847>

In 2009 Keswick, Cockermouth and Workington were flooded. Here are some photos of the flooding in Cockermouth: <https://www.visitcumbria.com/cockermouth-floods/>

Then in 2015 Storm Desmond struck Britain and the towns flooded yet again. Take a look at this video of the flooding in Cockermouth: <https://www.youtube.com/watch?v=pg8Dx1B7iuQ>

Have a chat with your parents/carers – they'll remember the floods and how they affected Workington.

Many settlements (villages, towns, cities) are located by rivers. They were originally located there for a number of reasons. For instance, they were located beside a river because it was a water supply, or even because it was easier to travel on the river, or do trade with another settlement.

Our capital city, London, is one such settlement beside a river – the River Thames. However, London is in danger of devastating floods, not only due to lots of rain, but also because of very big tides coming up from the English Channel. So how can you stop London from flooding? Take a look at these two videos. These were not made for children, but stick with them as there are lots of interesting facts and, as you'll see, the Thames Barrier is engineering genius!

[https://www.youtube.com/watch?v=3K6vfwJm\\_R4](https://www.youtube.com/watch?v=3K6vfwJm_R4)

<https://www.youtube.com/watch?v=jp4Y1HrRBD0>

**Your task:** I want you to make a barrier to stop flooding! **Warning:** you may get wet! ☹️

If you have Lego or KNEX or something similar, build a house. If you don't have those items, simply choose an item that you and your folks at home won't mind getting wet – it could just be a bottle of shampoo.

Put your 'house' at one end of your bath (on the bottom, not on the high sides). Then, at the opposite end, turn on the tap or, if you have one, your overhead shower. How can you stop the 'flood' overwhelming your house? **Build a barrier in your bath that holds back the water.**

And this is where your genius comes into play. **What can you use to hold back the flood?** It may not hold back all of the water, but even reducing the water that gets to your house will make a difference for its residents.

I am intrigued to see what you use, so send me a photo or video to Class Dojo.

(Please don't worry if you are unable to build a barrier. The fact that you are learning about the Thames Barrier and thinking about how you could stop the flooding makes you a 5B genius!)