

MATHS Learn at Home packs: Year 6, Week 13

These notes are intended for teachers who are using these materials to continue to teach their class using any form of online file sharing.

'Your home-learning resources have helped our school immeasurably: they're so clear, and the fact that they are in daily chunks, with plenty of explanation for parents at home, has made them invaluable.'
Nick, a Suffolk primary teacher.

Our small team have been working round the clock to produce these materials and we're really happy that huge numbers of teachers, schools and parents have found them useful – and emailed us to say so!

If you're not a regular user of Hamilton, why not consider becoming a [Friend of the charity](#) to access the teaching materials in English, Maths and Topics for the whole year? Or take a moment to browse our [free resources for schools](#).

The 'timetable' for this week's teaching and learning is as follows

- **Day 1** – In *Learning Reminders*, children are shown a reflection, rotation and translation of a simple house image on a grid, then asked for the co-ordinates of the shape's vertices each time. They use these skills in the practice sheets.
- **Day 2** – Children are asked to match descriptions and nets to 3-D shapes.
- **Day 3** – In the *Learning Reminders*, children are shown prime numbers on a 1-100 grid and introduced to two of Goldbach's conjectures. They test these out for themselves.
- **Day 4** – Children are shown how Napier's rods work, then asked to try them out for themselves!
- **Day 5** – *Provide some teacher input*, using the Presentation* on the Fibonacci sequence and Pascal's triangle. Children are asked to look for patterns, then choose to further explore either Pascal's triangle or Fibonacci-style sequences.

Structure of materials

	PowerPoint lesson	Learning Reminders	Practice Sheet(s)	Problem solving task	A bit Stuck?	Check your understanding
Day 1		✓	✓		✓	✓
Day 2		✓	✓		✓	✓
Day 3		✓		✓		✓
Day 4		✓		✓		✓
Day 5	✓	✓		✓		✓

**PowerPoint presentations are provided. You can use your phone to film yourself going through these on a laptop. OR parents and children can access them at home, preferably in PowerPoint but also as images on a tablet. You can then talk these through. Or you may have a clever online way, perhaps through the school's website, of sharing these presentations with children at home.*

Summary of Week

- Day 1** – Make and describe reflections, rotations and translations.
- Day 2** – Describe 3-D shapes; find nets for 3-D shapes.
- Day 3** – Investigate prime numbers, including Goldbach's conjectures.
- Day 4** – Napier's rods, a method of multiplication.
- Day 5** – Explore number patterns; describe and extend sequences.