

Practical Fraction Problem Solving

I know that you have been continuing with fractions this week on White Rose and so wanted to set something a bit different for you. Today's activity comes from the NRICH maths website, which is a great source of problem solving activities for all year groups. The activity I have chosen for you is called 'Bryony's Triangle' and is summarised below, with links as needed.

Activity:

You will need: some squares of white paper (made from A4 paper with the top rectangle removed, so they are large enough for you to manipulate)

1. Watch the video of how to make the paper flower (<https://rich.maths.org/content/id/7392/BryonyTriangle.mp4>)
2. Pausing the video as needed, make your paper flower.
3. Now onto Bryony's challenge: *what fraction of the original square of paper is the shaded triangle?*

Helpful Hints:

- How might you use the folds of your flower to help?
- What fractions of the piece of paper can you see using the folds?
- How could you split the paper in half using the fold lines? A quarter ...?

You could encourage your child to open out the flower and draw lines on the square over the fold lines to mark halves, quarters etc. Consider using coloured pens or pencils to record these fractions.

It may be useful to repeat this with another paper flower, so that you can use scissors to cut out the different shapes.

Solution:

The solution is found here <https://rich.maths.org/7392/solution> (I recommend that an adult looks at the solution to see how the children went about solving the puzzle, particularly if you are feeling a bit unsure of how to tackle it. The explanations given are really clear and visual too).

Have fun!
Mrs Clay ☺