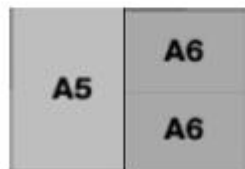
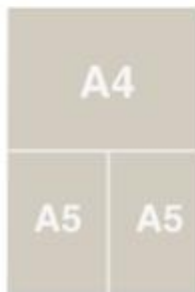


Year 2 Task:

Objective: Recognise and name common 2D shapes

<https://nrich.maths.org/12203>

For this task, you will need some paper. Some pieces need to be A4 (this is the same as paper in your printer), other pieces need to be A5. To get a piece of A5 sized paper, you can cut in half a piece of A4 paper. One piece (half) is the A5 piece. Then, you need some pieces of paper that are A6. To get this, cut a piece of A5 paper in half. It will help if they are different colours. You could use colourful pages from an old magazine if you don't have coloured paper (check with an adult first!)



Below is a picture of an unfolded piece of paper.
Can you work out what shape is made when it's folded along the crease shown on the left-hand side?



This is the shape you would have:



Can you work out
how you made a
square in this
way?

Can you make one of these shapes with a new piece of paper?

Now, make several of the same shape from A4, A5 and A6 pieces of paper in contrasting colours.



Challenge 1

Take a large and small shape made from your first colour and a medium shape made from your second colour.

Make a pattern from your shapes, by laying them on top of each other, that fits both of these rules:

You must be able to see at least part of each shape.

All three shapes must fit inside the perimeter (outline) of the largest shape.

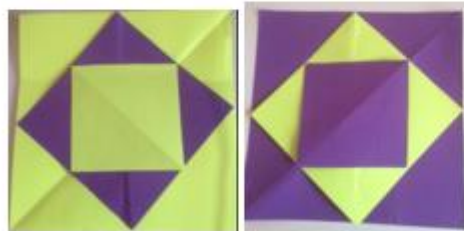


Challenge 2

Use a new large, medium and small shape to recreate the same pattern but in opposite colours from Challenge 1.

Place these two patterns next to each other and begin to make a 'Paper Patchwork' out of the patterns on your classroom floor.

Can you make each of the new patterns a different design from any of the others?



In each pattern you make, name the shapes you have created.

Worked examples (from “solutions” on Nrich):



Variation:

If you enjoyed this, (and have more paper!) you might like to try “Paper Patchwork 2”.

<https://nrich.maths.org/12204>