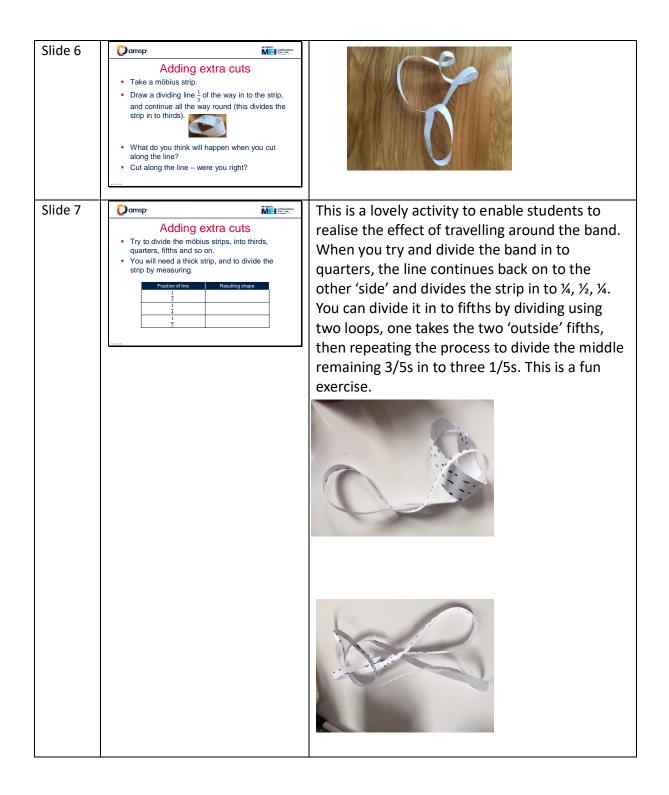
Slide 1	Advanced Mathematics Support Programme®	This is a great activity to do with students with some surprising results. However, it is definitely recommended that you try the activities yourself first before exploring with your students!
Slide 2		
Slide 3	Conspr The basic model • Take a strip of paper. • Put in one twist, then Sellotape the two ends together. • How many sides does your strip have? • How many sides does your strip have? • Put a dotted line down the middle of your strip (lengthways) • Imagine cutting down that line. What will happen to your möbius strip? • Cut your möbius strip down that length. • Were you right?	When sticking strips together, it is useful to stick the whole width of the strip, even better the whole width and both sides. This becomes more important during the more challenging tasks.
Slide 4	Conspre	
Slide 5	Adding extra twists Adding extra twists Output Adding extra twists output Consider a mobile strip we add one half twist. Output output output consoleration Consolera	If there is an even number of twists, the strip turns in to two strips. If there is an odd number of twists, the strip remains one piece. A good discussion point is to see whether the resulting bands have one or two sides, and how many twists they have.



Slide 8	Constraints of the provided state of th	Ensure students are using sufficient Sellotape to finish the loops and stick them together. If you are modelling this with students make sure you cut up to the join on each band first before cutting the join.
Slide 9		With the 0 twist and 1 twist the square comes out folded, but you can unfold it into a square.0 twists and 0 and 1 twistsImage: Image: Image
Slide 10	Compose Adding a hole • Take your strip of paper and cut out a 'C' shape so when you join it there is a long oval hole. • Join the sides, putting in a single half twist in one side. • Cut out the ellipse. • What shape do you get?	Discuss with students what would happen if you had no twists. How many sides do they think the shape has? 1 or 2?

Slide 11	Qamsp.	1 single twist
	Adding a hole • Continue this way, fill in the following table. • You may wish to continue with more twists. Image: two single twists (ame durality) Two single twists (ame durality) Two single twists (opposite chirality)	Remains as one piece Same chirality twists interlock Opposite chirality twists separate
Slide 12	Conversion C	