| | Starter | Learning Objective | Whole Class input and questions. | Independent Practice | Plenary |
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| 1 | Maths Fluency: Can you complete the grid for the missing numbers?  Talk about your strategies. | To continue patterns of shapes using turns, by creating tessellations. | Today we will continue looking at shapes and their turns to help make fun patterns. Introduce the concept Tessellation. Has anyone ever heard of a Tessellation? Share the images and clip to help explain this. . **Tesselating Shapes** video And now let's try this out. The following website will be our guide; http://mathengaged.org/resources/activities/art-projects/tessellations/ | **Activity:** Tessellation Fun with patterns: **You will need:** A4 paper card paper Pencil Ruler First choose your shape: Triangle, Diamond, pentagon, hexagon Next, think about the pattern you want to make? Now draw your shape on the card paper. Then cut out the shape. Begin tracing your shape on your A4 paper focusing on neat tracing and a pattern. Refer to the video for support. Differentiation: Support: Keep the shape direction the same, focus on alternating colour to create a pattern instead. Provide a template of the shape. Extension: Can you make your own unique shape? | Can you complete the pattern: Describe the turn for each pattern.  |

| 2 | Maths Fluency Practice- 3 dice roll, number sentence, calculations on white board, | To continue patterns of shapes using turns, by creating tessellations | Model how to describe and complete the missing shape pattern.<br><br>Fill in the missing shapes to complete the patterns.<br><br>▶ ◀ ▶ _ ▶ ◀ ▶ _<br><br>↓ ← ↑ → ↓ ← ↑ → _ ← ↑<br><br>Today we will continue working on our Tessellations | **Activity**:<br><br>Continuation from yesterday's Tessellation activity.<br><br>Make sure the final copy is coloured and neat. | Share your Tessellations with the class, by describing the turns you used to create it. |
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| 3 | 1. Use the image attached in resources<br><br>-Who can find the pattern?<br><br>Let's try one more:<br><br><br>2.Go over the rule or pattern for each. Talk about strategies used to solve. | To apply our knowledge of patterns to solve number puzzles<br>Problem Solving | Today we will be looking at more patterns, but this time we will look at number patterns.<br><br>Can you help me complete the following pattern?<br><br>2, 4, 6,<br><br>What is the pattern? ( 2's)<br><br>How about this pattern:<br><br>10, 20, 10, 30, 10, 40,<br><br>Can you finish my pattern?<br>What did you notice?<br><br><br>Let's try one more: | **Activity**:<br><br>Work through the following number puzzles.<br>There are 3 puzzles at different levels; try one, two or all.<br><br>Differentiotion:<br><br>Can you make your own number pattern puzzle? | Have your classmates try to solve it. |

*Using White Rose Maths for scope of learning*