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| Suitable for Key Stage 1 | | |
| **Exploring 2D Shapes** | | |
| **Learning Objectives:** | **Curriculum Links:** | **Resources:** |
| * To identify and investigate 2D and 3D shapes in everyday objects. * To recognise shapes in different orientations, sizes and patterns. * To identify and create patterns from 2D shapes. | **Maths** **-** 2D shapes and their properties.  **D.T.** - Photography and designing patterns.  **Art** - Identifying and creating shape patterns.  **R.E.** - Shapes, patterns and symbols used in a church. | * Activity sheet (R1) * camera * paper * pencils and crayons * selection of 2D shapes |
| **Teacher’s Notes** | | |
| **Before your visit** | | |
| * Children should review previous learning of 2D shapes and their properties. * Coloring13[1]Children need to be able to identify and name the different shapes shown in the table   2-not_wearing_pants[1]s_logo1[1] and identify these shapes in pictures and patterns. | | |
| **During your visit** | | |
| **Introduction *(10 mins)*:**  Introduction to the church building.  Discuss - Where are we? What is this building used for? Who is likely to use the building? How does the building make you feel? What can you see in the building? Walk around the church, inside and outside, and explore. | | |
| **Main activity *(30 mins)*:**  Discuss - What shapes can you see?  Walk around the church and find examples of circles, squares, triangles and rectangles.  In small groups, use R1 to identify examples of the shapes in objects and patterns inside and outside the church building. Record these using all the following methods sketching, taking rubbings or photography. Can you find examples of different sizes and orientations of these shapes? Look up: can you see any shapes in the patterns of the roof? Look low: are there any shapes on the floor? Look outside: can you find any shapes on the building walls, gravestones *etc*? Look all around you.  How many triangles can you find? How many hexagons? What shape can you find the most of? Can you find any patterns that are made up of more than one shape? | | |
| **Plenary:**  Come back together and share findings. Discuss and show each other examples of the shapes and how they are formed in different patterns.  Begin to consider your own design of a pattern, encompassing the shapes you have found. Think about how this pattern could be used in the building i.e. stained-glass window, altar cloth, kneeler design *etc*.  *(NB Medieval monks and nuns would have carried out this activity as a form of meditation or prayer.)* | | |
| **After your visit** | | |
| * Back in school using your design ideas, photographs, rubbing and drawings, create a pattern that can be used in the church that you have visited. * This could take the form of a stained-glass window, kneeler, alter cloth etc. * Send some of the finished patterns to the church to share your findings from our trip. | | |
| **Examples of 2D shapes in a church** | | |
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