## Dereham Church Infant and Nursery School- Mathematics



Year group: Recention

language.

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Development Matters - 3 and 4-year-olds -	Talk about and explore 2D and 3D shapes (for
example, circles, rectangles, triangles and cu	iboids) using informal and mathematical

Arealtanic Mathematics- Circles and triangles

Birth to 5 Matters - Range 6 - Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes

Development Matters - 3 and 4-year-olds - Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language.

Development Matters - 3 and 4-year-olds -Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'.

Birth to 5 Matters - Range 5 - Responds to and uses language of position and direction.

Prior learning	Future learning
Children will build on their previous learning	The children will study shapes with 4 sides at
about size	the end of this term

What pupils need to know or do to be secure		
Key knowledge and skills	Possible evidence	
Identify and name circles and triangles	Opportunities to sort a selection of triangles and circles	
Compare circles and triangles	Photos of children using twigs/sticks to make almost triangles, what did they notice?	

Shapes in the environment		is of children completing a shape hunt in chaol environment- what did they find?
Describe position	compl give	evidence of children setting up and leting an obstacle course, could a friend them instructions using positional bulary?
Key vocabulary		
Same, different, shape, pointy, sharp, sides,		
straight, corners, round, almost, small, large, in,		
on, under, over, beside, between, in front of,		
around, through, behind, next		
Common misconceptions		Books linking to this area
When using physical representations of 2-D shapes, ensure that they are as thin as possible to support children's understanding about them being flat.		Circle, Triangle, Elephant! A Book of Shapes and Surprises by Kenji Oikawa and Mayuko Takeuchi
It is important that children are shown circles of different sizes, and different types of triangles that vary in size		Triangle by Mac Barnett and Jon Klassen
and orientation. Support children to talk about the		Shapes, Shapes by Tana Haban
properties of the shapes and to explain how they know it		We're Going on a Bear Hunt by Michael
is the same shape, even if the orientation or the size is different.		Rosen
		Rosie's Walk by Pat Hutchins
Introduce children to non-examples or 'almost' circles and		
'almost' triangles. Examples of 'almost' circles would.	be a	
biscuit or a pancake, while examples of 'almost' trian	gles	

would be a slice of pizza, a musical instrument triangle and a cheese triangle with rounded corners. Support children to explain why they are not circles and triangles.	
Memorable first hand experiences	Opportunities for communication
	Ask and discuss the key questions provided by White Rose
	Discuss, share and repeat the sentence stems provided by White Rose

#### Communication and Interaction

Use a range of visual aids
Give clear instructions one at a time
Repetition
Provide simple instructions
Pre teach vocabulary
Use working wall where modelling is displayed
Give children thinking time
Model task

# Cognition and Learning

Check understanding regularly
Allow rest breaks
Give thinking time
Colour code signs that could be confusing
Wark checklists
Break down tasks into small steps
Give opportunities for over-learning

#### Social, Emotional and Mental health

Allow access to a quiet and calm space Give child a special role to increase self esteem Provide a visual support- what to do if you are stuck

Provide a movement break

Seat pupil by more confident peer

Now and next board

Sand timers

Movement breaks

Break down tasks into small steps

### Sensory and Physical

Consider carpet space position
Reduce background noise
Provide a range of manipulatives- dienes may be
too small
Appropriate seating
Wobble boards
Writing slape
Enlarge text
Variety of writing tools available