Dereham Church of England Infant and Nursery Academy- Mathematics

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	Range 6

Year group: Reception	Area/topic: Mathematics- length, height and
	time

Development Matters - Reception - Compare length, weight and capacity.

- 3 and 4-year-olds - Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...'

Birth to 5 Matters - Range 6 Enjoys tackling problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy

Becomes familiar with measuring tools in everyday experiences and play Range 6 – Is increasingly able to order and sequence events using everyday language related to time

Range 6 - Beginning to experience measuring time with timers and calendars

Prior learning	Future learning
In the Autumn term the children briefly compared	The children shall continue to cover time in their
size, mass and capacity	daily maths meetings

What pupils need	d to know or do to be secure
Key knowledge and skills	Possible evidence

Explore length	After reading books such as Superworm by Julia
	Donaldson, prompt children to use dough to make
	worms of different lengths. Encourage them to mo
	long worm and a short worm. What is the longer
	worm they can make?

Compare length

Provide children with ribbons of different lengths, widths and colours. Prompt them to line up the lengths of ribbon in order from longest to shortest. Challenge children further by showing them a specific length of ribbon and asking them to find a ribbon that is longer or shorter.

Explore height

Provide children with large pieces of paper on the floor. Prompt them to lie down on the paper and help them to draw around each other. Pin the paper up to support children to see how tall they are

Compare height

After exploring books such as Actual Size by Steve Jenkins, display actual size pictures of various animals in the construction area. Encourage children to make a tower as tall as a penguin. How is it different to a tower as tall as a mouse?

Talk about time

Ask children and key adults to bring in a photograph of themselves from when they were younger. Prampt them to look at the photos carefully – whose picture is whose? How have they changed?

Order and sequence time

Sing the Days of the Week song. Sequence the days of the week to make a class timetable. Order key events that happen on certain days during the week, such as P.E. Place these on the correct days on the weekly timetable.

Key vocabulary
Key vocabulary Long, short, longest, shortest, same, tall, taller, tallest, minute, evening, tomorrow, next week, weekend, yesterday, before, after, first, then,

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Common	misconce	ptions.
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Ensure that resources in provision are varied and allow children to start to make simple comparisons to develop a sense of 'long and short'. Encourage children to physically move objects so they can see the difference.

Children should be shown how to make the ends of objects line up so that they can see the difference and should be taught that 'length' is the distance between two points.

A good way for children to explore the concept of length is by representing their thinking using their own mathematical graphics in mark-making. Encourage them to explain their ideas as they draw these representations.

Support children to understand that height is a type of length.

Children will have little concept of their own size to begin with, so drawing around each other and then holding the paper up is a good way for children to recognise how tall they are.

Books linking to this area

Superworm by Julia Donaldson Actual Size by Steve Jenkins Jim and the Beanstalk by Raymond Briggs

I Can Only Draw Worms by Will Mabbitt
Titch by Pat Hutchins
Tall by Jez Alborough
Jack and the Beanstalk
Five Minutes' Peace by Jill Murphy
Mr Wolf's Week by Colin Hawkins
Jasper's Beanstalk by Nick Butterworth

Support children by giving them reference points, such as photographs of events on a journey wall or in a book, so that they can recall past experiences and notice seasonal change. Discuss what is happening tomorrow, next week or at the weekend to support children to talk about the more immediate future.

Use calendars to mark off the days leading up to special events to help to show the passing of time. Children will not yet understand standard units of time; however, pointing out when key events are happening, such as the clack showing twelve for lunchtime, can help to develop this.

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Many opportunities to play games. Regular use of a range of manipulatives, loose parts, natural objects etc.

Opportunities for communication

Ask and discuss the key questions provided by White Rose

Discuss, share and repeat the sentence stems provided by White Rose

DCINA Reasonable adjustments for pupils with SEND

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
Work 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 slope
Enlarge text
Variety of writing tools available