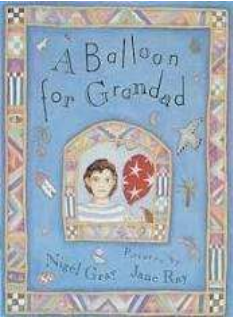

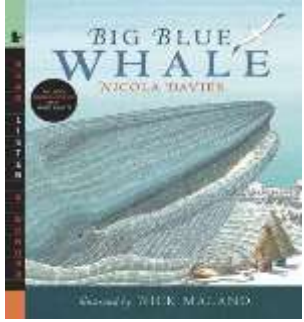
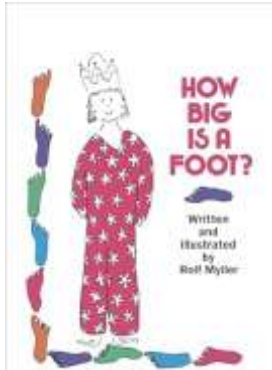
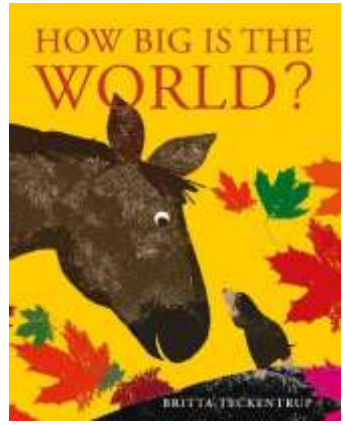
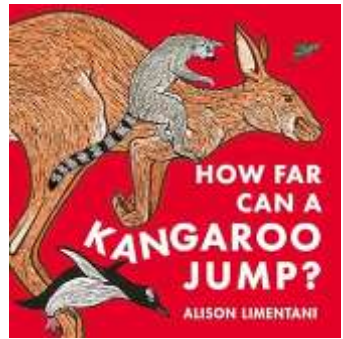
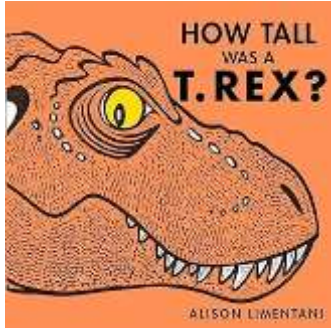




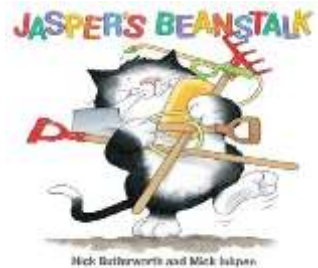
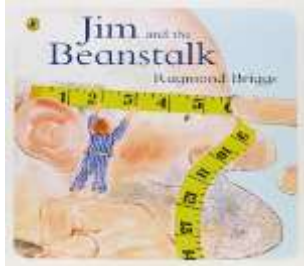
Measures



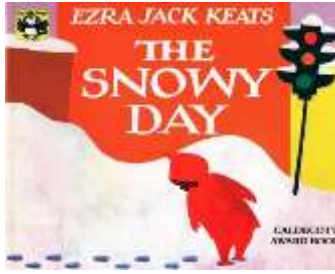
Book cover	Title, author	Description	Developing the maths
Length and Distance			
	<p><i>A Balloon for Grandad</i> Nigel Gray</p> <p>3 - 6</p> <p>https://www.youtube.com/results?search_query=A+Balloons+for+Grandad%2C+Nigel+Grey</p>	<p>Sam's balloon blows away across many different and detailed landscapes, all the way to his Grandad.</p> <p>A lovely story focussing on distance.</p>	<p>How far might a balloon travel in the room? How could we find out? What would be the same/different outside?</p> <p>Where does Grandad live? Using a large map of the locality, mark the location of grandads living nearby, perhaps complete with photographs. Whose Grandad lives closest to the school?</p>
	<p><i>A Letter To Amy</i> Ezra Jack Keats</p> <p>3 - 7</p> <p>https://www.youtube.com/watch?v=Ru2eFBRJds0</p>	<p>Peter goes out to post his letter to Amy, inviting her to his birthday party. The wind blows the letter out of his hand, but he gives chase and manages to catch it and post it. Amy does come to the party!</p>	<p>How far away is the postbox from Peter's house? How could we estimate the distance? Draw a map and mark the story locations on it to help estimate distances.</p> <p>How far is the nearest postbox? How could we find out? Take small groups of children to the nearest postbox to post a letter to the school. How long does it take to arrive?</p> <p>Have you ever had a letter? How far did it travel to reach you? Mark the locations on a map of the UK (or the world) and display the envelopes.</p>

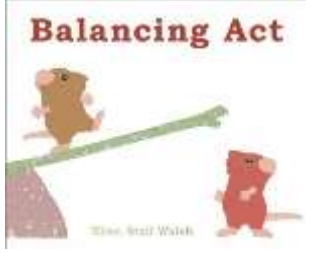

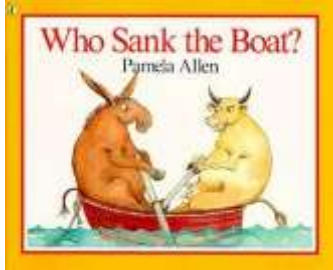
	<p><i>Big blue whale (Read and Wonder)</i> Nicola Davies and Nick Maland</p> <p>2 - 5</p> <p>https://www.youtube.com/watch?v=7ly6qU7k0Mg</p>	<p>Factual information about blue whales, including comparing their size and features such as eyes and ears to other animals, children and everyday objects.</p>	<p>Work with children to measure the everyday objects mentioned to find the size of parts of a whale. Make an eye, ear or spout and use to help imagine or draw a blue whale, perhaps using chalk in the playground.</p>
	<p><i>How Big is a foot?</i> Rolf Myller</p> <p>4 - 8</p> <p>https://www.youtube.com/watch?v=5S-Dgk7ml40</p>	<p>The King wants to give the Queen something special for her birthday. He decides to give her a bed, and measures how long and wide it needs to be using his feet. The carpenter's apprentice makes the bed but it is too small. How can that be?</p>	<p>A book to stimulate comparing and measuring with feet. Draw around and cut out a template of everyone's foot, including the adults. You could also include a giant's foot. How are they all the same? How are they all different? Measure objects with two different feet. What can you say about the results?</p>

	<p><i>How Big is the World?</i> Britta Teckentrup</p> <p>3 – 6</p> <p>https://www.youtube.com/watch?v=dSR2SCb6qao</p>	<p>Mole goes on an epic journey to find out how big the world is.</p>	<p>Discuss the comparisons given for the size of the world as the story progressed. Are they useful comparisons for the creatures involved and for us?</p>
	<p><i>How Far can a Kangaroo Jump? (Wild Facts and Amazing Maths)</i> Alison Limentani</p> <p>3 - 5</p> <p>https://www.youtube.com/watch?v=Vzs1WRaF3Kg</p>	<p>Factual book about how far various animals can jump. The book gives the length a kangaroo can jump and compares that jump with how far other creatures can jump. It then asks how many kangaroo jumps would it take to get all the way around the earth? The distance each creature can jump is detailed on the back cover pages.</p>	<p>How far can children jump? How could we measure and compare the jumps?</p>

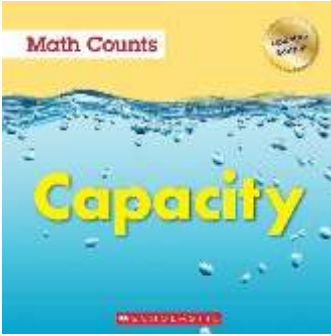
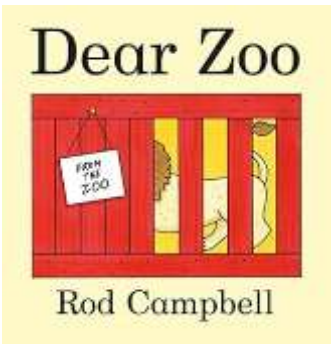
	<p><i>How Long is a Whale?</i> (Wild Facts and Amazing Maths) Alison Limentani</p> <p>3 - 5</p> <p>https://youtu.be/icKWkoe5vrU</p>	<p>Factual book about whales. The book compares the length of a single whale to 10 sea otters, 9 yellowfin tuna, 8 sealions and so on. There is a fold out 4 page spread to compare the length of a blue whale with a mixture of sea creatures. The final pages also gives the lengths of the different sea creatures in metres.</p>	<p>Use metre sticks to get an idea of the length of each creature and to make life-sized drawings or simple models of them. Use the drawings to make a range of comparisons.</p>
	<p><i>How Tall was a T. Rex?</i> (Wild Facts and Amazing Maths) Alison Limentani</p> <p>3 – 5</p> <p>https://www.youtube.com/watch?v=4cW1l2XyDf4</p>	<p>Factual information about a T. Rex, including comparing its size and features such as eyes and ears to other animals, children and everyday objects.</p> <p>This would be very useful within a wider topic on dinosaurs.</p>	<p>Support children to measure the everyday objects mentioned to find the size of parts of a T. Rex. Children could make life-sized drawings or simple models of the parts of a T. Rex and/or a whole T. Rex!</p> <p>The book also mentions other measurements such as mass and capacity.</p>
	<p><i>Is it Larger? Is it Smaller?</i> Tana Hoban</p> <p>2 - 5</p> <p>https://youtu.be/Zmka6AWEqE</p> <p>Available from good second hand booksellers.</p>	<p>A wordless book of pictures that focuses on comparisons.</p>	<p>Invite children to compare similar objects in the setting to help them develop the language of comparison. Children could also measure their chosen objects in different ways to compare them.</p>

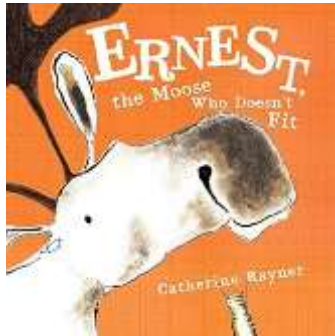
	<p><i>Jack and the Beanstalk</i> Emma Fucci</p> <p>2 - 4</p> <p>https://www.youtube.com/watch?v=FD-gVMzXA_Q</p>	<p>The traditional tale of Jack and the beanstalk.</p>	<p>Plant seeds and measure the plants as they grow. Begin with something like cress that grows quickly and is edible. Make sandwiches using the cress, taking note of any allergies. Plant beans and observe the plants including measuring growth each week. There is also the opportunity to discuss what the plants need to grow.</p> <p>A useful book to support a growing and measuring topic.</p>
	<p><i>Jasper's Beanstalk</i> Nick Butterworth and Mick Inkpen</p> <p>3 - 5</p> <p>https://www.youtube.com/watch?v=23INhyreb8M</p>	<p>Jasper plants and tends a bean, impatient to go giant hunting!</p>	<p>A useful book for a growing topic. As with the story of <i>Jack and the Beanstalk</i>, plant seeds and measure the plants as they grow.</p> <p>This book also uses the days of the week.</p>
	<p><i>Jim and the Beanstalk</i> Raymond Briggs</p> <p>3 - 7</p> <p>https://www.youtube.com/watch?v=pLOj9vtldcg</p>	<p>Jim climbs a beanstalk and meets a giant. He measures him for reading glasses, false teeth and a wig, paid for with good gold.</p>	<p>Use a large PE or yoga ball, or something similar to make a giant's head. Add ears, eyes, nose and a mouth then invite children to measure and then make his glasses, false teeth and wig. Check that the things made fit the giant's head.</p>

	<p><i>Shrinking Sam</i> Miriam Latimer</p> <p>3 - 7</p> <p>https://www.youtube.com/watch?v=iETBB0-z3K4</p>	<p>As Sam's family ignores him, he shrinks and is washed down the sink plug hole.</p> <p>Warning: Sam returns inside a working washing machine. Either change this part of the story or explain how very dangerous it would be to be inside a washing machine.</p>	<p>Children can use real life objects to recreate the pictures in the book in order to estimate or measure how tall Sam is at each stage of the story.</p>
	<p><i>The Queen's Hat</i> Steve Antony</p> <p>3 - 5</p> <p>https://www.youtube.com/watch?v=6Q8MQPVq_vg</p>	<p>The Queen and members of her household chase her favourite hat as it blows off her head, until it finally lands in Kensington Palace.</p>	<p>A lovely book to help you focus on distance. Track the journey of the Queen's hat on a map of central London. Measure the distance between the places on the map.</p>
	<p><i>The Snowy Day</i> Ezra Jack Keats</p> <p>1 - 5</p> <p>https://www.youtube.com/watch?v=PzzWi-5IB7o</p>	<p>The book describes Peter's adventures in the snow. He enjoys the sound and tracks his feet make and goes on to make a snowman and snow angels.</p> <p>A lovely book for when there is snow.</p>	<p>Who can make the longest track? What will they make it with? Set other challenges for children to explore in the snow.</p> <p>Ensure that children are appropriately dressed for the weather and, if necessary, limit how long they can be outside in the cold.</p>

Mass (weight)			
	<p><i>Balancing act</i> Ellen Stoll Walsh</p> <p>4 - 8</p> <p>https://youtu.be/EkpJtf5QOsQ</p>	<p>Two mice use a stick and a rock to make a balance. A range of friends help them to balance again and again.</p>	<p>Give children a set of balance scales to explore weight and balancing using any of the objects in the setting. Leave the book next to the balance scales to encourage the children to explore.</p>
	<p><i>How Much Does a Ladybird Weigh? (Wild Facts and Amazing Maths)</i> Alison Limentani</p> <p>1 - 5</p> <p>https://www.youtube.com/watch?v=bhEtwYh1Hw8</p>	<p>Beginning with <i>10 ants weigh the same as 1 ladybird</i>, the book continues to compare the weights of different creatures, for example, <i>5 starlings weigh the same as 1 grey squirrel</i>. The weight/mass of each creature is given in grams or kilograms on the last 2 pages.</p>	<p>Support or work with children to make and compare the weights/masses given in the story using standard and non-standard measures. Children could then make similar comparisons to those in the book and then move on to making their own suggested comparisons.</p>
	<p><i>Who Sank the Boat?</i> Pamela Allen</p> <p>2 - 4</p> <p>https://www.youtube.com/watch?v=0CmXIntGEIQ</p> <p>Available second hand</p>	<p>A cow, a pig, a donkey, a sheep and a tiny mouse go for a row in a boat – with disastrous results!</p>	<p>A lovely book to discuss who sank the boat and to prompt exploration of floating and sinking, with objects of different sizes and weights. Provide boats and a range of small world animals for children to use.</p>

Capacity

	<p><i>Capacity (Math Counts: Updated Editions) (Math Counts, New and Updated)</i> Henry Pluckrose</p> <p>3 - 7</p> <p>https://www.youtube.com/watch?v=M5UqTJDJSdA</p>	<p>Real-world examples and corresponding photos help children to understand the concept of capacity - the word used to describe how much a container can hold.</p>	<p>Provide similar object to those used in the book for children to explore capacity.</p>
	<p><i>Dear Zoo</i> Rod Campbell</p> <p>1 - 5</p> <p>https://www.youtube.com/watch?v=ZqGYWRHOV6E</p>	<p>Lift the flaps to discover the animals the zoo has sent – a monkey, a lion and even an elephant! But will they ever manage to send the perfect pet?</p>	<p>Provide a range of boxes and crates as well as the animals from the story for children to explore which animal will fit into each box or crate.</p> <p>Challenge children to find a suitable sized container for a particular animal (e.g. cuddly toy) from the setting.</p>



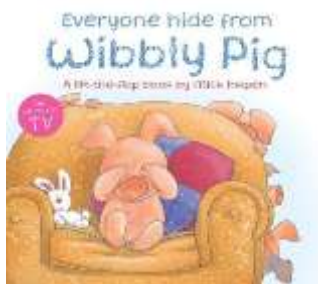
Ernest, the Moose Who Doesn't Fit Catherine Rayner

2 – 6

<https://www.youtube.com/watch?v=023eDGndFdk>

Ernest is a rather large moose with a rather large problem. He is so big he can't fit inside his book! Luckily, Ernest is also a very determined moose, and he and his little chipmunk friend aren't going to give up easily. With some tape, odd bits of paper, and plenty of enthusiasm, the pair construct an enormous page by themselves, and everything fits together in the end.

Ernest wanted to fit in the book. Explore cuddly toy animals in the setting – what or where would each animal like to have or be? Challenge the children to make what is needed.



Everyone hide from Wibbly Pig Mick Inkpen

1 - 3

<https://www.youtube.com/watch?v=KbOd1mKRQOA>

The book explores a game of hide and seek, with lots of flaps to lift as part of the search.

Play hide and seek with the children, then discuss a range of questions such as: Where is a good place to hide? What makes it a good place to hide? Can it be a small space or must it be a big space?

Size & Unclassified or mixed



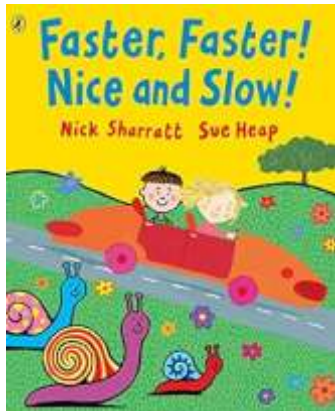
Actual size Steve Jenkins

4 - 8

https://www.youtube.com/watch?v=-qphR4aEj_A

This book gives the length and weight of different creatures and makes comparisons. The last 4 pages give more information on each creature, including running speeds and comparisons or other facts.

This book is a useful addition to any animal topic and is likely to inspire children to take a range of different measurements.



Faster, Faster! Nice and Slow!
Nick Sharratt, Sue Heap


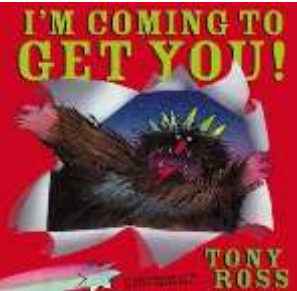

2 – 6

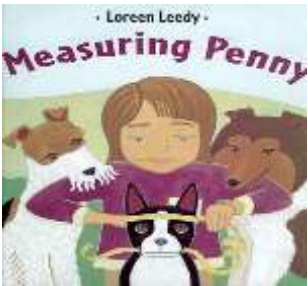

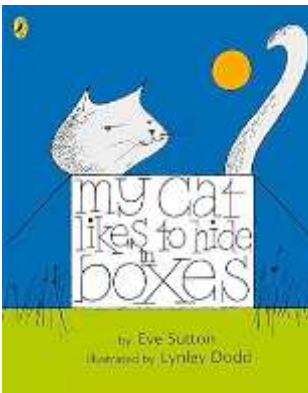
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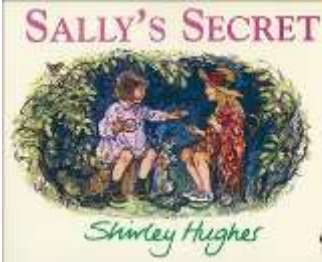

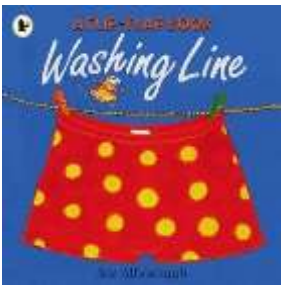
Here is the perfect way to learn about opposites. Whether it's a quiet cat and a noisy dog, a freezing cold or a hot and sunny day or a super fast leopard and a family of slowly-slow snails, Sue and Nick introduce all sorts of opposites in an engaging and memorable way.

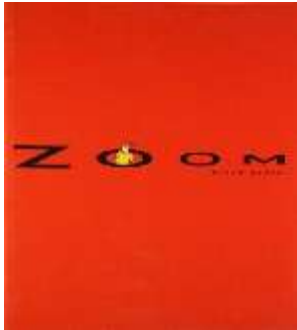
Explore how we could describe and/or measure the distance between opposites such as near and far; up above and down below; the distance travelled to the same place on a mountainous road and on a flat straight road and so on.

The book also offers the opportunity to explore opposites such as light and heavy or big and small.

	<p><i>Home</i> Carson Ellis</p> <p>2 – 4</p> <p>https://www.youtube.com/watch?v=vLFbIsz8pNO</p>	<p>This is a gorgeous, imaginative celebration of the many possibilities of home. Home might be a house in the country, a flat in the city, or even a shoe. There are clean homes, messy homes, sea homes and bee homes. Home resides on the road or the sea, in the realm of myth, or in the artist's own studio.</p>	<p>Encourage children to talk about the home they live in. Invite them to make a model of their home or one of the ones in the book. Model making will involve a range of measurements and comparisons.</p>
	<p><i>I'm coming to get you!</i> Tony Ross</p> <p>3 - 5</p> <p>https://www.youtube.com/watch?v=TSscmBuLA24</p>	<p>A monster that likes to destroy planets comes to Earth, but is far too small to have an effect.</p>	<p>A useful book to encourage size comparisons. Does the story make the monster sound scary? How do children feel when they see the size of the monster?</p> <p>Compare small world animals with pictures of animals in real life to explore the difference in size. What could happen if a real zebra (or other animal) was in the setting?</p>
	<p><i>I See, I See</i> Robert Henderson</p> <p>3 – 7</p> <p>https://www.youtube.com/watch?v=t3aOdcw4CU</p>	<p>A book to be read with a friend sitting opposite, as images are seen differently, e.g. as either a smile or a frown, depending which side you are looking from.</p>	<p>Invite discussion about what could be measured and how it could be measured.</p>

	<p><i>Measuring Penny</i> Loreen Leedy</p> <p>4 - 7</p> <p>https://www.youtube.com/watch?v=YXxj3TfTFM4</p>	<p>Lisa decided to measure Penny, her Boston Terrier, for her homework project. Measuring is explained and explored. Uses a mixture of imperial and metric measures.</p>	<p>Encourage children to choose something in the setting to measure – or could they measure their own pet? Each child can decide what to measure and how to measure it.</p>
	<p><i>Millions to Measure</i> David M Schwartz & Steven Kellogg</p> <p>4 – 8</p> <p>https://www.youtube.com/watch?v=z_PQEOTnpgs</p>	<p>Marvelosissimo the Mathematical Magician shows a group of children how people measured many years ago and today. Distance, length, weight, volume are all covered. Although imperial units are used, the book ends with metric measurements.</p>	<p>Encourage children to explore different types of measuring within the setting. Invite children to compare their measurements and share how they measured.</p>
	<p><i>My cat likes to hide in boxes</i> Eve Sutton</p> <p>2 - 5</p> <p>https://www.youtube.com/watch?v=TaxCVUFjTNN</p>	<p>Lots of cats all around the world do exciting things like fly aeroplanes or play the violin - but my cat, an ordinary round-the-house cat, likes to hide in boxes.</p>	<p>Provide a range of boxes and bags for children to hide a cuddly toy cat in. You could also hide the cat each morning for children to find.</p>

 <p>SALLY'S SECRET Shirley Hughes</p>	<p><i>Sally's Secret</i> Shirley Hughes 2- 6 https://www.youtube.com/watch?v=IRd-zPEnZ_0 Available from good second hand booksellers and often within a Shirley Hughes anthology.</p>	<p>Sally likes to make houses in all sorts of places, but they keep being tidied away. She makes a house in the woods in the garden and has lots of visitors before bedtime.</p>	<p>Explore measuring through den building.</p>
 <p><i>The Smartest Giant in Town</i> Julia Donaldson Alex Scheffter</p>	<p><i>The Smartest Giant in Town</i> Julia Donaldson 3 - 5 https://youtu.be/cfiPrA8E3qE</p>	<p>The scruffiest giant in town becomes the smartest giant in town, for a while. He uses parts of his new outfit to help different animal friends and ends up rescuing his original outfit from the bin. His friends give him a gold paper crown because he is the kindest giant in town.</p>	<p>Invite children to talk about how each item of clothing is used. Provide similar items of large adult clothing and encourage children to use the clothing as they see fit within the setting. Share ideas.</p>
 <p><i>Washing Line</i> Jez Alborough</p>	<p><i>Washing line</i> Jez Alborough 2- 6 https://www.youtube.com/watch?v=t5IcFgYRFQs Available from good second hand booksellers.</p>	<p>The story identifies whose washing is on the washing line over several spreads.</p>	<p>Encourage children to talk about how they know who the washing belongs to. Could each item belong to someone else? Who else would it fit?</p>



Zoom Istvan Banyai

4 - 8

<https://www.youtube.com/watch?v=JMhUujrN4iU>

A wordless book that zooms from a farm to a ship to a city street to a desert island. But if you think you know where you are, guess again. For nothing is ever as it seems in these pictures within pictures, which will tease and delight readers of all ages.

Provide magnifying equipment for children to look at objects more closely. Take close up, distant or unusual pictures of everyday objects and ask children to identify what the object is. Can they describe where the photographer must have been to take the photo, using the language of distance such as near, far, close and so on?