Spring 2: Medium Term Plan　　　　　　　　　Topic: **Building Bridges** | **Year 3 (2017-18)**

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Literacy	**Poetry** Chn read a range of poems about rivers and water. What patterns can you hear and see on the page. Does it have repetition and rhyme? Is there any alliteration? Chn create their own poems about the river in the style of Valerie Bloom. In groups chn perform poems.	**Poetry** In pairs chn create their own poems about the river in the style of Valerie Bloom.	**Persuasive letters** Chn look at the difference between formal and informal letters. Chn learn about why bridges are needed. What are the positives about having bridges to cross rivers? Chn read about the planned bridge connecting Rotherhite and Canary Wharf and write persuasive letters about why we need a new bridge.	**Newspaper reports** Look and read newspaper reports about new bridges being made and designs from all over the world. Look at bridge disasters- bridges that have collapsed over the world. Chn write newspaper report on a bridge that collapsed- creating a sensational headline, newspaper name, lead paragraph and using quotes.	**Newspaper reports** Independent writing in special books- link with Extravaganza book- The Great Race	**Independent writing** Purple book writing
Numeracy	**Repeated addition** Use numicon, display a repeated addition i.e. 2 + 2+ 2 =. What is the answer? Can you say this equation in a different way- using x. How many 2s do we have? Chn show repeated addition in several ways- cubes, numicon, numberlines.	**Arrays** Investigation- how can you make 12? Get 12 counters/ cubes. How can you arrange this so that we can arrange 12 into an array? Chn write multiplication facts to make 12. 3 x 4 = 12, turn the array around and say that its the same as 4 x 3 = 12. Can you find another way? Chn use arrays to find factors of numbers.	**Multiply by 10 and 100** Display multiplications i.e. 8 x 10 =, 12 x 10 =, 10 x 16 =, 100 x 21 = what happens to a number when we times it by 10 or 100. Take suggestions. Model to chn what happens to a number using place value grid.	**Multiplying by partitioning** Show chn a number sentence 14 x 6 =. How can you work this out? Show this with numcion. How can you work this out in an abstract way, Model to chn multiplying by tens then units, **Multiplying using a grid method**. Model using a grid method to show their working out.	**Measures** Using a ruler to measure lines accutely. Converting meaures from cm and mm. Solve problems involving comparisons e.g. would a 25cm or 28cm length of string be best if I needed 26cm?	**Measures** How much weight can your bridge hold? Testing bridges using wights and measures- g and kg.

Science	Chn make towers using only a sheet on paper. Tell chn that we want to see which tower is the strongest. Which shape is your tower? Which shape makes the strongest tower? Why?	To notice that magnetic forces can act at a distance and attract some materials and not others by sorting materials. To compare and group materials according to whether they are magnetic by sorting materials.	To observe how magnets attract or repel each other and attract some materials and not others by investigating the strength of different magnets.	To describe magnets as having two poles and to predict whether two magnets will attract or repel each other, depending on which poles are facing by making a compass to hunt for treasure.	To observe how magnets attract or repel each other and attract some materials and not others by making, playing and evaluating a magnetic game.	Make a magnetic game
Art/DT	**Design** Chn work in groups to design and truss bridge. Which shape do you think is best for a truss bridge? How will you test which bridge is the 'best'?	**Construct** Chn work in groups to create their truss bridge using strips of card. Chn will follow their design and use PVA to glue strips together and use clips to hold their joins together.		**Test** How will we test which truss bridge is the best? Which shape does your truss bridge have? Chn lead out a fair test to see which truss bridge is the strongest.	**Evaluate** Which truss bridge was the strongest? How do you know? Which shape is the best for creating a truss bridge? Why? Why do you think your bridge was the strongest/ wasn't the strongest?	**Easter Eggstravaganza** Plannaing and decorating eggs.
History/ Geography	Why are bridges needed? What are they used for? Chn look at the history of the River Thames. Why did we need a bridge to cross it? What bridge designs were submitted? Which design was chosen for London Bridge?	Chn research different types of bridges- truss bridge, arch bridge, cable stayed bridge, suspension bridge, and bascule bridge. What is special about these different types of bridges?	Chn research famous bridges around the world i.e. Brooklyn bridge etc. What type of bridge is it? How do you know? Chn choose their favourite bridge and write a fact file on it including how long the bridge is, which river does it go over?			
ICT	**Google Forms**					
R.E	**PPA cover**					
Music	**Recorders**					
P.E	**Tennis and Swimming**					