**Sequential Planning: Wimbledon**

**http://www.telegraph.co.uk/sport/tennis/wimbledon/5570284/Wimbledon-2009-in-numbers.html**

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| Objective | To be able to identify shapes and apply their properties  Anyone for tennis? | To be able to estimate using rounded figures.  Strawberries and Cream: How many strawberries are eaten during Wimbledon each year? | Anyone for tennis? More about the tennis court  To be able to convert between metric and imperial measures. | Anyone for tennis? Speeds of service |
| Settling Activity  10 mins | A picture of a tennis court on the board:  How many rectangles can you find?  <http://skololit.ru/wp-content/uploads/2012/07/11407394-tennis-courts.jpg> | Students estimate the number of strawberries that are eaten. | <http://stackoverflow.com/questions/15092497/algorithm-for-shortest-path-through-all-edges>  You need to paint the lines on a tennis court. What is the total distance you will need to paint? | Have pictures of several different animals and machines. Students rank in order of speed. Then tennis serve can be put in to this. |
| Starter  15 mins | What is rectangle? (Angles, parallel lines etc).  Open discussion on what else we know about rectangles and compare to other shapes (e.g. square, parallelogram). | Record the data. Students then work out the mean, median mode. These three averages are kept displayed and will be checked throughout the lesson. | <http://upload.wikimedia.org/wikipedia/commons/thumb/f/f7/Tennis_court_imperial.svg/220px-Tennis_court_imperial.svg.png>  If you are using this image for metric and imperial conversions you will need to use active software and cover up one of the measurements.  Estimate the lengths of the tennis court. Then go through and see how accurate you are. You can now check your answers to the total distance painted from the settler. | What is the record for the fastest tennis serve?  What does this mean? (If the court is x metres long then how long did it take the ball to travel from one end to the other?) |
| Main 1  20 mins | Brief explanation of tennis. How it’s scored, and how the service game works.  Watch a clip of tennis (either You Tube or the BBC iPlayer) and ask students to identify as many 2D and 3D shapes as they can. | **2000** kilos of strawberries are consumed daily. 28,000 kilos are eaten during the fortnight. They are served with over 7,000 litres of fresh cream. | Measure some objects using the measuring tapes or rulers with both inches and centimetres. Derive the equivalent centimetres to inches. Then give the other equivalent lengths. | Is there a correlation between serve speed and weight of athlete?  Provide data and students plot and draw conclusions. |
| Main 2  15 mins | Share shapes that students have identified and students complete a table with the properties of shapes in their book. | Price of a punnet has gone up 60p in 18 years. What is the percentage increase? | Apply the learning to the tennis court and convert the metric to imperial (or vice versa). | Percentage of serves that are in  Students watch a game and record the number of serves that are in out of the total number of serves that are attempted. Work out relative frequency and apply to a whole match. |
| Plenary  15 mins |  |  | Work out the area of rectangles to derive the area equivalent for metric and imperial. |  |