

Presentations02Greeks

	Topic	Presenter	
1	Prove that vertical angles are congruent.		
2	Prove that an angle inscribed in a semi-circle is a right angle.		
3	Show how Thales calculated the height of a pyramid and the distance of a ship from the shore.		
4	Prove the Pythagorean theorem.		
5	Find the formula for the n^{th} triangular number.		
6	Find the formula for the n^{th} pentagonal number.		
7	Prove that the square root of 2 is irrational. (See if you can find out how the Greeks proved it.)		
8	Prove that the square root of 3 is irrational.		
9	Discuss and explain Zeno's Achilles and the Tortoise 'paradox.' Why is it a 'paradox'?		
10	What were Zeno's paradoxes? What was their purpose?		
11	Argue that there are only five Platonic solids.		
12	Describe Plato's Theory of Forms (or Ideals)		
13	With compass and straight edge: bisect an angle.		
14	With compass and straight edge: square the equilateral triangle.		
15	With compass and straight edge: duplicate the square.		
16	With compass and straight edge: construct a regular pentagon.		