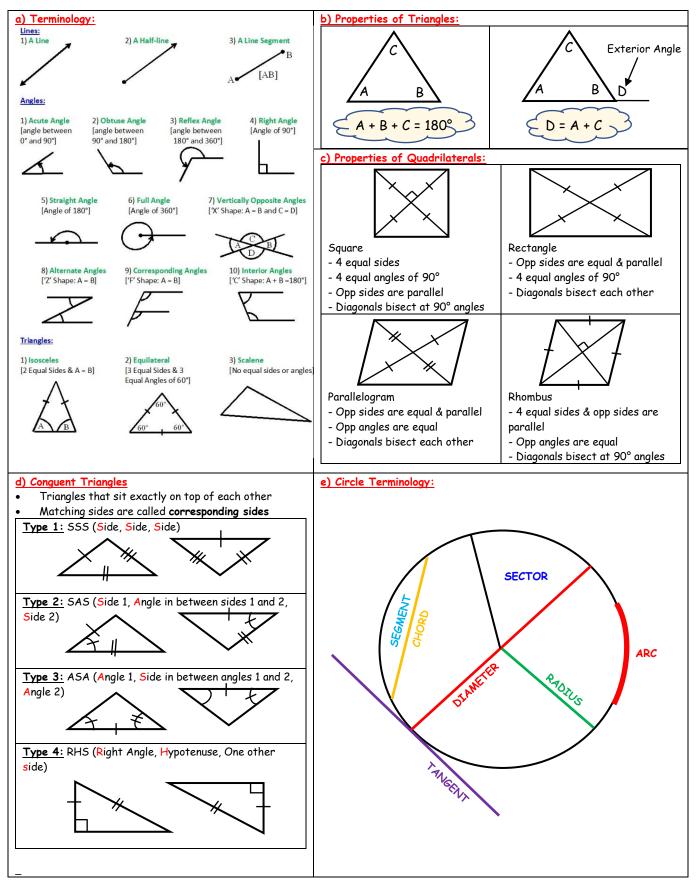
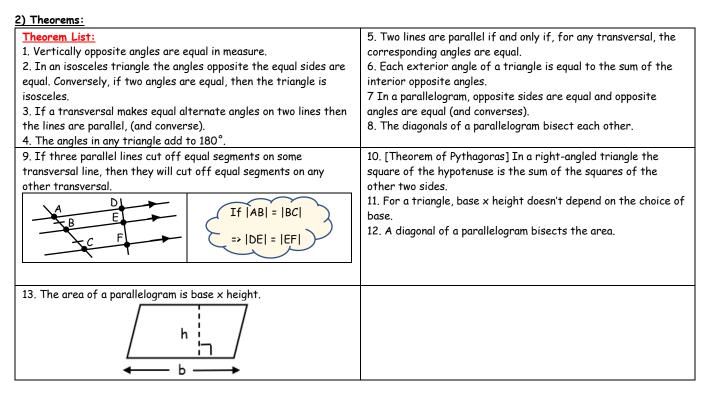
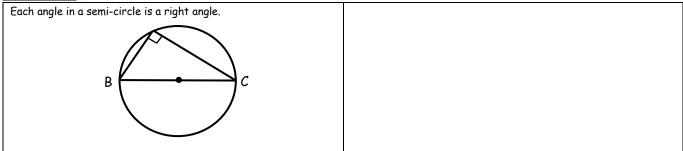
Topic 8: Geometry

1) The Basics:





3) Corollaries: (The results below follow on from the theorems above)



4) Constructions:

General Tips:	3. Line perpendicular to a given line I, passing through a given
1. Keep your work neat and tidy.	point on I.
2. Choose an appropriate pencil to draw the construction, not too	4. Line parallel to a given line, through a given point.
dark and not too light.	5. Division of a line segment into 2 or 3 equal segments,
3. Draw rough sketches of construction first, especially for	without measuring it.
triangles and rectangles.	6. Line segment of a given length on a given ray.
4. Show all your construction lines & label your construction.	 Angle of a given number of degrees with a given ray as one arm.
• There are 15 constructions on the course for Junior Cert	10 - 12. Triangle, given i) SSS ii) SAS or iii) ASA data
Higher Level. (See Power Points in OneNote for step by	13. Right-angled triangle, given the length of the hypotenuse and
step instructions)	one other side.
	14. Right-angled triangle, given one side and one of the acute
Constructions List:	angles (several cases).
1. Bisector of a given angle, using only compass and straight	15. Rectangle, given side lengths.
edge.	
2. Perpendicular bisector of a segment, using only compass and	
straight edge.	

5) Transformations/Symmetries:

