 Plane Geometry

| Content | | Teaching strategies and activities | Resources |
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| Properties of angles made by transversals crossing parallel lines. |  | | Geogebra Files/ Alternate, Corresponding/Co Interior (MANSW)  <https://drive.google.com/a/education.nsw.gov.au/file/d/0B9hzfac53d3tQWIwOTZhTmFkeFk/view?usp=sharing> |
| Ratio of intercepts. | Dividing a segment in a given ratio geogebra file  <http://tube.geogebra.org/student/m1188810> | |  |
| Angle sum of a triangle, quadrilateral and polygon. | Angle sum of a triangle- using IWB <http://exzuberant.blogspot.com.au/2011/08/demonstrating-angle-sum-of-triangle.html> | |  |
| Geogebra Tube  Triangle  <http://tube.geogebra.org/material/simple/id/37130> | |  |
| Quadrilateral  <http://tube.geogebra.org/material/simple/id/157839> | |  |
| Exterior angle of a triangle. |  | |  |
| Exterior angles of a polygon. | Exterior angles of a polygon file <http://tube.geogebra.org/student/m434>  Demonstration <http://tube.geogebra.org/material/simple/id/1913181>  Exterior angles of a polygon geogebra file <http://tube.geogebra.org/student/m434> | | Video on Exterior Angle (MANSW)  <https://drive.google.com/a/education.nsw.gov.au/file/d/0B9hzfac53d3tdkp2T2E3azF4SG8/view?usp=sharing> |
| Congruent triangle proofs. |  | |  |
| Similar triangle proofs. |  | | Similar triangles video (Stuart Palmer)  <https://drive.google.com/a/education.nsw.gov.au/file/d/0B9hzfac53d3tSi00TVJwcGgxaFE/view?usp=sharing> |
| Properties of parallelogram, rectangle, square, rhombus. | Properties Worksheet  <https://drive.google.com/a/education.nsw.gov.au/file/d/0B9hzfac53d3teHZGMUJhdHgzN0U/view?usp=sharing>  Area of rhombus geogebra file <http://tube.geogebra.org/student/m5017> | | Properties of Quadrilaterals  <http://www.mathsisfun.com/geometry/quadrilaterals-interactive.html> |
| Area of parallelogram, trapezium and rhombus. | The Secret to all areas  <http://mathwithbaddrawings.com/2015/03/11/the-secret-to-all-areas/>  Electronic self marking area worksheet, download at <http://mathslinks.net/faculty/area-electronic-worksheet>  Area of trapeziums  <http://exzuberant.blogspot.com.au/2011/07/i-see-parallelograms-everywhere.html> | |  |
|  |  | | Concentric Circles  <https://www.youtube.com/watch?v=8wHMaJ6AtNs> |
| Extra Resources |  | | Guide to Theorems and Proofs (MANSW)  <https://drive.google.com/a/education.nsw.gov.au/file/d/0B9hzfac53d3tRDdhTVA1eW1BLVk/view?usp=sharing> |