# EMBLEMTAURANGA GIRLS COLLEGE

**YEAR 9MAT: TOPIC 1**

**Curriculum Strand: Geometry and Measurement**

**Focus: Angles and Shape**

This sheet must be put in your notes book at the start of this topic.

This sheet outlines the skills you will need to understand to successfully complete this unit of work. After covering each skill you will give yourself a ROG rating which will depend on how confident you feel in that particular skill.

***Instead of saying “I’m not good at this” try saying “what am I missing?”***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Skills**  | **On Track HW book** | **Fast Track HW book** | **Online Resources** | **ROG** |
| I can name angles using notations such as CÂB, ∠BAC  | P101 | 97A |  |  |
| I can classify angles as acute, right, obtuse, straight, reflex |  |  |  |  |
| I can estimate angle size and measure angles using a protractor | P102 | 101A | [Estimating Angles](https://www.mathplayground.com/alienangles.html) |  |
| I can use the following angle properties to calculate missing angles:- Angle sum of a triangle- Adjacent angles on a straight line- Angles at a point- Vertically opposite angles | P102,103 | 98B98A98A98A100107 | [Missing Angles](https://www.mathgames.com/skill/8.62-find-missing-angles-in-triangles-and-quadrilaterals) |  |
| I can use angle properties in isosceles and equilateral triangles |  |  |  |  |
| I can give a direction using the Compass Rose (eight points)  | P106 | 102B |  |  |
| I can give directions using bearings |  |  |  |  |
| **Extension:**I can use angle properties to find angle sizes on parallel linesI can use the terms supplementary and complementaryI can name and identify properties in all triangles and quadrilaterals  | P104,105 | 97A99101103 |  |  |

***You are not expected to be the best. You are expected to try your best. Always.***

**Learning Behaviour throughout this topic:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Respect** | *Excellent* | *Good* | *Satisfactory* | *Inconsistent* | *Poor* |
| **Participation** | *Excellent* | *Good* | *Satisfactory* | *Inconsistent* | *Poor* |
| **Pride** | *Excellent* | *Good* | *Satisfactory* | *Inconsistent* | *Poor* |

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| I can estimate angle size and measure angles using a protractor | P102 | 101A | [Estimating Angle Sizes](http://www.transum.org/software/SW/Starter_of_the_day/Students/Angles.asp?Level=11)[Drawing Angles](https://www.mathplayground.com/alienangles.html) |  |
| I can use the following angle properties to calculate missing angles:- Angle sum of a triangle- Adjacent angles on a straight line- Angles at a point- Vertically opposite angles | P102,103 | 98B98A98A98A100107 | [Missing Angles](https://www.mathgames.com/skill/8.62-find-missing-angles-in-triangles-and-quadrilaterals) |  |
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