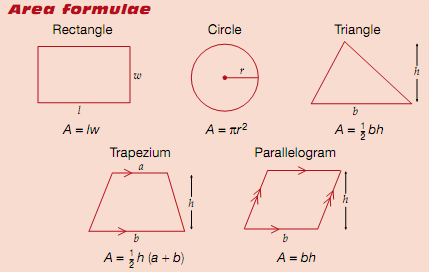
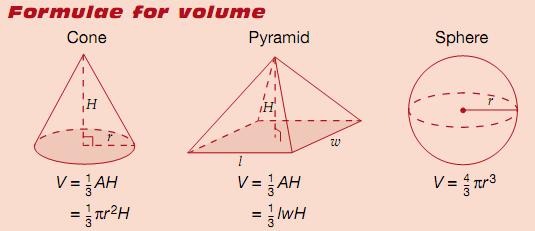
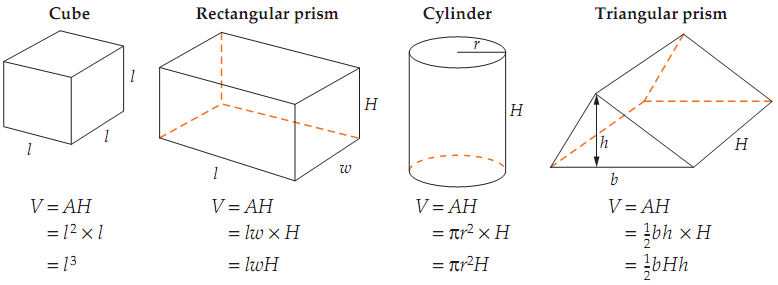
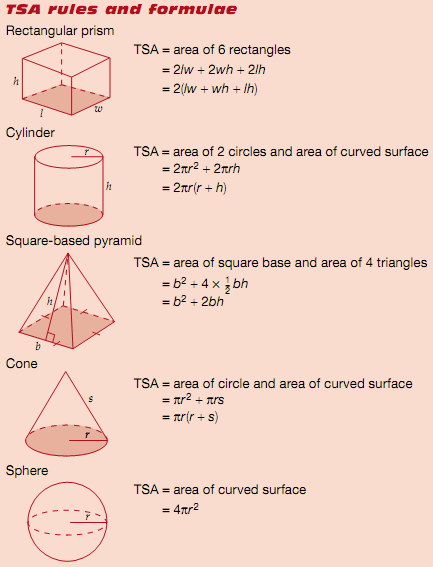
**HEINAMMEN YEAR 11 –COURSE WORK – CHAPTER 7 and 8 (BLUE BOOK)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Weekly Plan** | **Sub Topic** | **Exercise** | **Page** | **Questions** | **Due Date** |
| Week 5 | Pythagoras Theorem | 7.1 | 335 | Qs 1) All | Week 6 |
| Trigonometric Ratio Revision | 8.1 | 374 and 375 | Prep Zone Replay All Questions.  8.1 Qs 1 All, 2) 3) 4) | Week 6 |
| Week 6 | Introduction to 3D Shapes  Total Surface Area and Volume  Composite Shapes  Composite Shapes Extended | 7.3  7.4  7.2  7.2 | 347  353  341  341 | Qs 1) ALL  Qs 1) ALL  Qs 1) first column  Qs 2) First column  Qs 4,5,6)  Qs 1) second column, 2) second Column  Qs 7) 8) | By next lesson  Following Week  (week 7) |
| Week 7 | Composite 3D Shapes: Surface Area and Volume  Circle Geometry | 7.3  7.4  7.5 | 247  253  353 | Qs 2) a) e) h) i) 3) First Column 4) 5) Try 8 Qs 2) a) f) 3) a) d) g) l) 5) first column 5) a) c) d) f)  Qs 1) and 2) first and second column  Qs 3) first column  Qs 4) first column  Qs 5) All | End of the Week  End of the week  Following Week (Week 8) |
| Week 8 | Circle Geometry  Revision | 7.5  Chapter Review | 353  367 | Qs 6) first column 7) 8) try 11) 12) 13)  ALL or as much as you can! | End of the Week |
| Week 9 | Measurement Test  Trigonometry: Review and Bearings  Trigonometry: Sine Rule and Cosine Rule | 8.1  8.2  8.3  8.4 | 377  382  388  393 | Qs 5,6,7,8  Q1 1) All 2) 3) 4)  Qs 1,2,3,4,5  Qs 1,2,3,4,5,6,7 | End of Week  Following |
| Week 10 | Cover any loose ends plus Trigonometry Test, introduction to matrices and set matrix questions from the book | | | | |



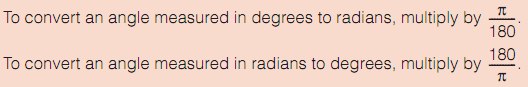


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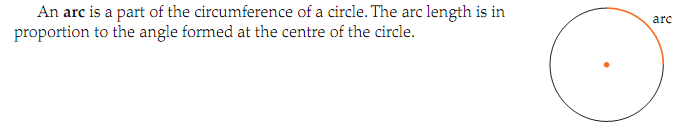


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| --- | --- | --- | --- |
| **Unit Conversion**   |  |  | | --- | --- | |  | 1000mL=1L 1000L = 1KL | | **Capacity**  1cm3 = 1mL  1000cm3 = 1L  1m3 = 1000L = 1KL |
| **Concentration**  Number of grams per litre (g/L).  Number of millilitres per litre of solution (mL/L).  Number of grams per 100 g of solution (g/100 g).  Number of milligrams per litre (mg/L). This is sometimes presented as parts per million (ppm) as 1 L of water has a mass of 1 000 000 mg. | Speed |

***Degrees to Radians and Back***

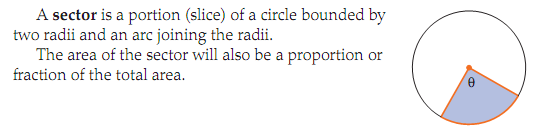
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***Arc Lengths***

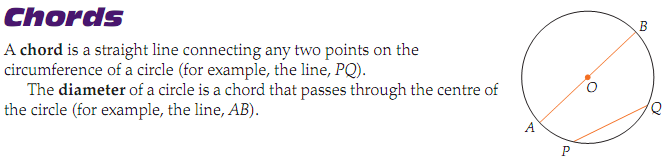
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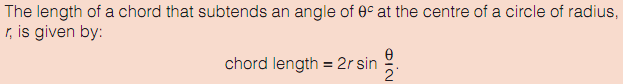
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***Sectors***

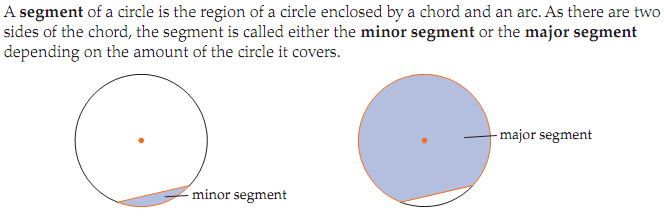
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***Segments***



Area of Minor Segment Formula



**Area of Major Segment = Area of circle – Area of minor segment**