YEAR 10 FOUNDATION

HALF TERM 5

| **What?**<br>**When?**<br><br>**Why?** | **Lesson 1**<br>**Learning intentions**<br>(what can a student do at the end of the lesson) | **Lesson 2**<br>**Learning intentions**<br>(what can a student do at the end of the lesson) | **Lesson 3**<br>**Learning intentions**<br>(what can a student do at the end of the lesson) | **Lesson 4**<br>**Learning intentions**<br>(what can a student do at the end of the lesson) |
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| Week 1 | Understand and use the probability scale. | Apply the property that the probabilities of an exhaustive set of outcomes sum to 1<br><br>Apply the property that the probabilities of an exhaustive set of mutually exclusive events sum to one | Understand and use relative frequency. Relate relative expected frequencies to theoretical probability, using appropriate language and the 0 to 1 probability scale | Construct and interpret Venn diagrams. |
| Week 2 | Construct and interpret Venn diagrams. | Find probabilities from Venn diagrams. | Construct possibility spaces. | Find probabilities from possibility spaces. |
| Week 3 | Understand and use scale factors such as 1cm to 1metre. | Interpret and use map scales. | Understand and use the eight compass point bearings. | Understand and use 3 figure bearings. |
| Week 4 | Understand and use 3 figure bearings. | Construct and interpret plans and elevations of 3D shapes | Substitution (inc negatives and fractions) into linear expressions | Understand and use standard mathematical formulae and formulae from other subjects |
| Week 5 | Solve equations and inequalities of the form x+a=c, a+x=c, c=x+a, c= a+x where a is a real number.(R) | Solve equations and inequalities of the form ax=b, b=ax<br>x/a = b, b=x/a which give both integer and non integer solutions.(R) | Solve equations and inequalities of the form ax+b=c, a+bx=c, c=ax+b, c= a+bx where a and b are real numbers. Which give both integer and non integer solutions. | Solve equations and inequalities of the form a(x+b)=c, a(b+x)=c, c= a(x+b) C=a(b+x) which give both integer and non integer solutions. |
| Week 6 | Solve equations and inequalities of the form $\frac{x}{a}$+b=c | Solve equations and inequalities with unknown on both sides. | Form and solve equations | Rearrange formulae to change the subject unknown only appears once |