



**Lode Heath School**  
**Mathematics Department**  
**Year 7 Foundation**  
**Summer Term**

Assignment Title	Unit 9: Probability	Date set	Summer 1
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Summary of Unit 9	Key Words
Use appropriate probability language and the 0-1 probability scale. Calculate probabilities. Understand that probabilities of an exhaustive set of outcomes, including mutually exclusive events, sum to one.	Impossible, Equivalent, Possible, Scale, Biased, Event, Percentage, Experiment, Event, Trial, Outcome, Likelihood, Relative Frequency
<b>Prior knowledge:</b>	
1) How likely is it that tomorrow will be Friday?  2) How likely is that I will get an even number when I roll a fair, 6-sided die?  3) What is $1 - 0.45$ ?  4) What is $\frac{2}{7} + \frac{3}{7}$ ?	

## LEARNING JOURNEY

Task Description
<b>9.1 The language of probability (GCSE Statistics)</b> Use the language of probability. Use a probability scale with words. Understand the probability scale from 0 to 1.
<b>9.2 Calculating probability (GCSE Statistics)</b> List and count outcomes. Calculate probability based on equally likely outcomes. Calculate probabilities using basic tree diagrams. Compare probabilities.
<b>9.3 More probability calculations (GCSE Statistics)</b> Calculate probability of A or B happening by counting outcomes. Calculate the probability of an event not happening.
<b>9.4 Experimental probability (GCSE Statistics)</b> Record data from a simple experiment. Estimate probability based on experimental data. Make conclusions based on the results of an experiment.
<b>9.5 FINANCE: Expected outcomes</b> Use probability to estimate the number of expected wins in a game. Apply probabilities from experimental data in simple situations.

Assignment Title	Unit 10: Transformations	Date set	Summer 2
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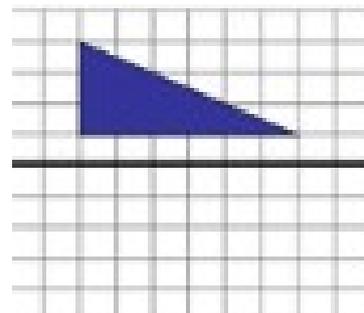
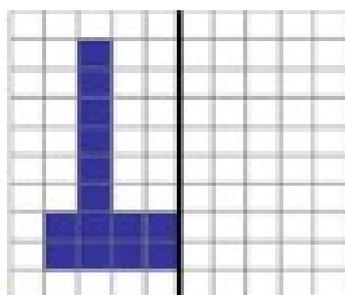
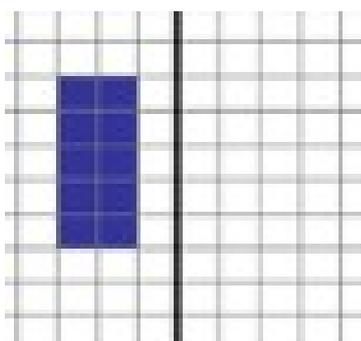
Summary of Unit 10	Key Words
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Transforming shapes using translation, reflection, rotation and enlargement.

Image, object, congruent, reflection, mirror line, line of symmetry, enlarge, coordinate, congruent, angle, similar.

**Prior Knowledge:**

Reflect the shapes in the mirror line:



## LEARNING JOURNEY

Task Description
<p><b>10.1 Congruency and enlargements</b></p> <p>Identify congruent shapes. Use the language of enlargement. Enlarge shapes using given scale factors. Work out the scale factor given an object and its image.</p>
<p><b>10.2 Symmetry</b></p> <p>Recognise line and rotational symmetry in 2D shapes. Identify all the symmetries of 2D shapes. Identify reflection symmetry in 3D shapes.</p>
<p><b>10.3 Reflection</b></p> <p>Recognise and carry out reflections in a mirror line. Reflect a shape on a coordinate grid. Describe a reflection on a coordinate grid.</p>
<p><b>10.4 Rotation</b></p> <p>Describe and carry out rotations on a coordinate grid.</p>
<p><b>10.5 Translations and combined transformations</b></p> <p>Translate 2D shapes. Combine transformations.</p>