

Year 8 Objective List – Intermediate

HT6

Probability:

Objective	Sparx Task	
use the terms likely, equally likely, fair, unfair, certain when describing chance or likelihood	M655	
understand and use the probability scale from 0 to 1	M941	
place theoretical probabilities accurately on the probability scale	M941	
find probabilities based on equally likely outcomes in simple contexts	M941, M938	
apply the property that the probabilities of mutually exclusive outcomes sum to 1	U683	
find the probability of A and B occurring and the probability of A or B occurring	M683	
systematically list outcomes		
use the product rule for counting		
complete sample spaces for combined events with equally likely outcomes and calculate probabilities from these	M718	
interpret the frequency of outcomes of probability experiments from tables and find relative frequency from these	M755	
calculate expected outcomes of future experiments by applying relative frequency	M206	
calculate probabilities from a two way table		
calculate probabilities from a two way table, including conditional probabilities		
read basic Venn diagrams	M829	
complete Venn diagrams	M829	
complete Venn diagrams, including when the intersection needs to be calculated	M829	
find probabilities from a Venn diagram	M419	

Angles and Lines:

Objective	Sparx Task	
Use scale factors, diagrams and maps	M112	
Produce a scale drawing	M112	
Use properties of triangles to work out unknown angles	M351	
Properties of quadrilaterals	M679	

Angles on straight lines	M818	
Angles around a point	M818	
Identify parallel and perpendicular lines	M814	
Calculate unknown angles when two lines cross at a point	M163	
Calculate unknown corresponding angles involving parallel lines	M606	
Calculate unknown alternate angles involving parallel lines	M606	
Use co-interior angles to find missing angles	M606	
Work out unknown angles involving parallel lines including co interior angles	M606	
Line and rotational symmetry of triangles to work out unknown angles	M523	
Use properties of triangles to work out unknown angles	M351	
Solve angle problems involving quadrilaterals	M393	
Interior angles of regular and irregular polygons	M653	
Exterior angles of polygons	M653	
Problems with interior and exterior angles in polygons	M653	