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- $\left\{\right.$ know and apply the sine rule, $\frac{a}{\sin A}=\frac{b}{\sin B}=\frac{c}{\sin C}$, and cosine rule, $a^{2}=b^{2}+c^{2}-2 b c$ $\cos A$, to find unknown lengths and angles\}
- \{know and apply Area $=\frac{1}{2}$ ab $\sin C$ to calculate the area, sides or angles of any triangle\}
- describe translations as 2D vectors
- apply addition and subtraction of vectors, multiplication of vectors by a scalar, and diagrammatic and column representations of vectors; \{use vectors to construct geometric arguments and proofs\}


## Probability

In addition to consolidating subject content from key stage 3, pupils should be taught to:

- apply the property that the probabilities of an exhaustive set of mutually exclusive events sum to 1
- use a probability model to predict the outcomes of future experiments; understand that empirical unbiased samples tend towards theoretical probability distributions, with increasing sample size
- calculate the probability of independent and dependent combined events, including using tree diagrams and other representations, and know the underlying assumptions
- \{calculate and interpret conditional probabilities through representation using expected frequencies with two-way tables, tree diagrams and Venn diagrams\}


## Statistics

In addition to consolidating subject content from key stage 3, pupils should be taught to:

- infer properties of populations or distributions from a sample, whilst knowing the limitations of sampling
- interpret and construct tables and line graphs for time series data
- \{construct and interpret diagrams for grouped discrete data and continuous data, ie, histograms with equal and unequal class intervals and cumulative frequency graphs, and know their appropriate use\}
- interpret, analyse and compare the distributions of data sets from univariate empirical distributions through:
- appropriate graphical representation involving discrete, continuous and grouped data, \{including box plots\}
- appropriate measures of central tendency (including modal class) and spread \{including quartiles and inter-quartile range\}
- apply statistics to describe a population
- use and interpret scatter graphs of bivariate data; recognise correlation and know that it does not indicate causation; draw estimated lines of best fit; make predictions; interpolate and extrapolate apparent trends whilst knowing the dangers of so doing.
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## Services and information

## Benefits

Births, death, marriages and care
Business and self-employed
Childcare and parenting
Citizenship and living in the UK
Crime, justice and the law
Disabled people
Driving and transport

## Education and learning

Employing_people
Environment and countryside
Housing and local services
Money and tax
Passports, travel and living abroad
Visas and immigration
Working, jobs and pensions

## Government activity

## Departments <br> News <br> Guidance and regulation <br> Research and statistics <br> Policy_papers and consultations <br> Transparency <br> How government works <br> Get involved


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