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Grade 10

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Maths Term 3 Topics

These are the major term 3 topics as listed in the Grade 10 Maths ATP document for 2023/2024

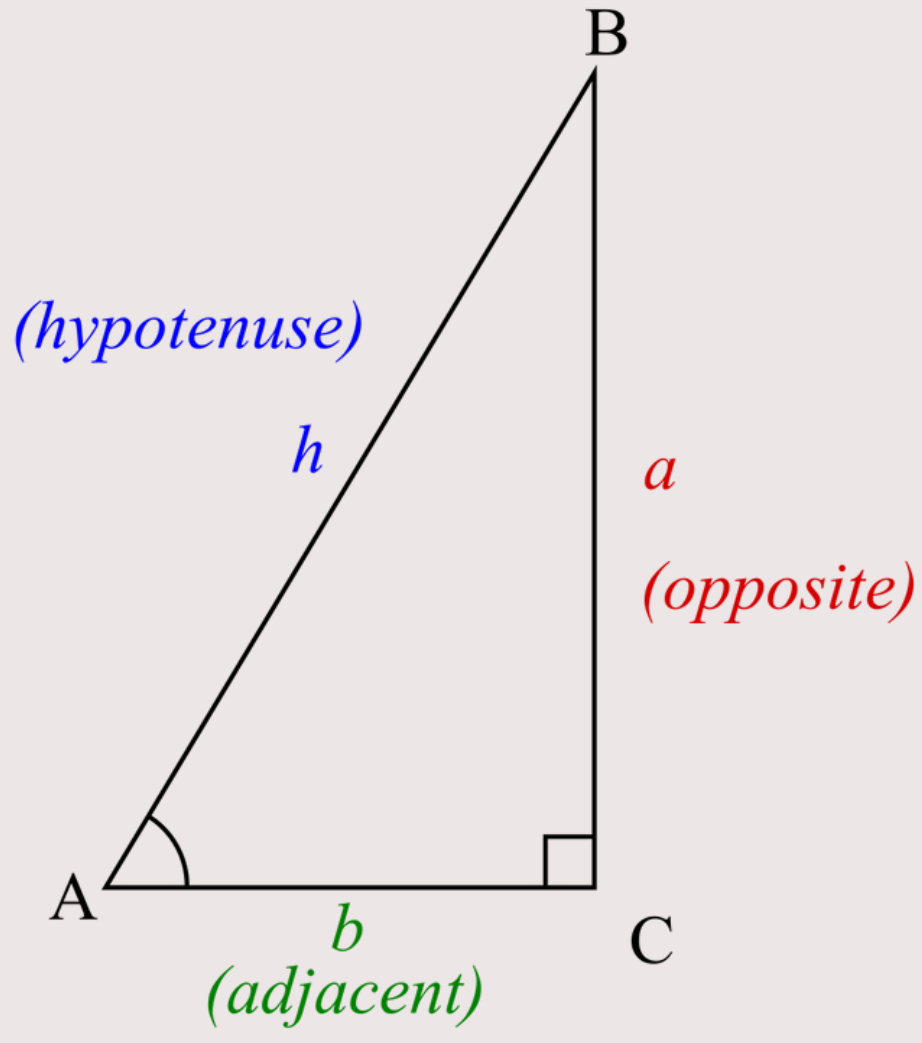
Remember: your school may do topics in a different order or in different terms. If you did not complete or finish Euclidean or Analytical Geometry or Functions from term 2, you may be doing those topics first

Topic
Trigonometry (2D)
Statistics
Probability
Finance and growth

TRIGONOMETRY (2D)

Sub topics to study and practice

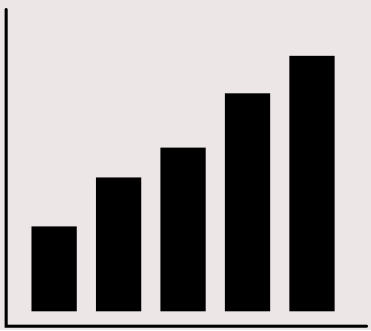
SUB-TOPIC	☑
Determine lengths/distances/heights in a right angled triangle using trig ratios	
Determine the size of angles in a right angled triangle when given lengths	
Angle of elevation and depression	

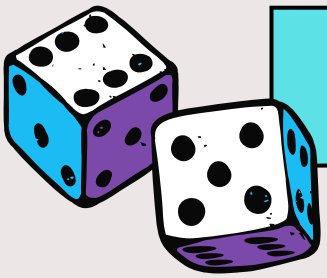


STATISTICS

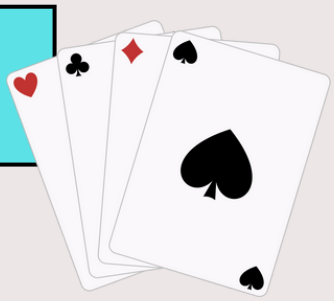
Sub topics to study and practice

SUB-TOPIC	☑
Measures of central tendancy in ungrouped data: calculating the mean, median mode	
Measures of dispersion: Determining the range. Working out quartiles and percentiles: interquartile range and semi-interquartile range	
Measures of central tendency in grouped data: estimated mean of grouped data, determining modal interval/class and interval in which the median lies	
Measures of position: quartiles, percentiles. Five number summary and Box-and-whisker plots	
Using statistical summaries and graphs (e.g. histograms) to analyze data	





PROBABILITY



Sub topics to study and practice

SUB-TOPIC	☑
Understand the terms 'experiment', 'sample space' and 'event' and calculate the probability of an event occuring	
Calculate the relative frequency of an event	
Draw and interpret/understand Venn Diagrams: use them to solve probability problems	
Understand the following: the complement of an event, the intersection of events and the union of events	
Understand these two rules of probability: $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$ or $P(A \text{ and } B) = P(A) + P(B) - P(A \text{ or } B)$	
Understand the following about mutually exclusive events and complementary events: • A and B are mutually exclusive if $P(A \text{ and } B) = 0$, • A and B are complementary if they are, ➢ mutually exclusive and $P(A) + P(B) = 1$ Then $P(B) = P(\text{not } A) = 1 - P(A)$ **Taken from grade 10 Maths 2023/2024 ATP document**	
Tree diagrams	

FINANCE AND GROWTH

Sub topics to study and practice

SUB-TOPIC	☑
Simple interest: calculating principle (P)/starting amount, final amount, amount of simple interest, number of years or interest rate	
Hire purchase: calculating the above as well as working with deposits, working out monthly repayments	
Compound interest	
Make use of these interest and growth formulae to work with problems including inflation, hire purchase (as mentioned above) and population growth	
Situations involving changing interest rates	
Working with exchange rates	

Summary of topics compiled by Miss Martins.

Qualified Physical Sciences and Maths teacher.

Information obtained from the 2023/2024 annual teaching plans accessed at: https://www.education.gov.za/Curriculum/NationalCurriculumStatementsGradesR-12/2023ATPsFET.aspx

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