❄ Haese Mathematics
What has changed in MYP 4

Material added:

• Two online Assumed Knowledge chapters and Chapter 1 (Number) to assist weaker students.

• Algebraic common factors have been added to Chapter 2 (Algebra: Expressions) in preparation for Chapter 15 (Algebraic factorisation).

• Chapter 9 (Pythagoras' theorem) has been added. While we included Pythagoras' theorem in the MYP 3 textbook, it is not part of the Framework at MYP 3, so this may be the first time students see Pythagoras.

• Vertical and horizontal stretches, and combinations of transformations have been added to Chapter 20 (Transformation Geometry), since we will not revisit transformations in this context at MYP 5. Rather, transformations at MYP 5E will focus on the transformation of functions.

• Projectile motion has been added to Chapter 22 (Quadratic functions). This short section has a technology focus, which should prove useful for students heading to the Applications courses at DP.

• Chapter 29 (Networks) has been added. This is part of the Extended course only, but is presented at MYP 4 as there will be limited time in the MYP 5E course.

Material removed:

• Rational exponents have been removed from Chapter 3 (Exponents). We will do this in MYP 5E.

• Applications of trigonometry in 3-D problems will wait until MYP 5E. Since trigonometry is not in the Framework at MYP 3, this will be the first year studying trigonometry.

• The Exponential and rational functions chapter has been removed, as it is only part of the Extended course.

• The online "Vectors" chapter has been removed, since vectors are no longer in either DP SL course. MYP 5E will include an introduction to vectors for students intending to take DP HL courses.
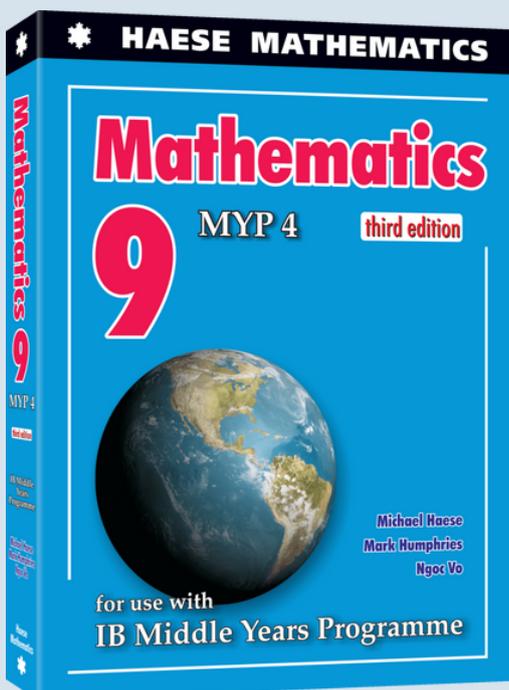
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Material restructured:

• The "Sets and Venn diagrams" chapter has been split into Chapter 5 (Sets) and Chapter 7 (Venn diagrams). This allows students to use their linear equations work from Chapter 6 to solve problems involving Venn diagrams.

• The "Coordinate geometry" chapter has been split into Chapter 17 (Coordinate Geometry) and Chapter 18 (Straight lines). This will provide a more complete treatment of both topics.

• The "Statistics" and "Comparing numerical data" chapters have been combined into Chapter 28 (Statistics).

Other notes:

• Some of the material in this book is only intended for students completing the Extended components of the Framework. This material has been marked in blue.

• The online Chapter 30 (Logic) is intended for students looking towards an Analysis DP course, as this material is useful background for the study of Proof.

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