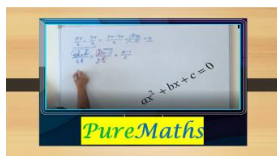


Year 10 Mathematics – Video Content

Semester 1



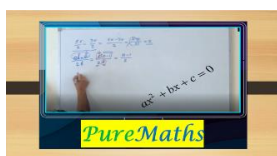
31 videos – 40 hours

Semester 1 contains the following chapters:

- **Arithmetic and Algebra** (10 videos, 12.6 hours)
- **Linear Equation and Graph – Part One** (7 videos, 10 hours)
- **Linear Equation and Graph – Part Two** (11 videos, 12.6 hours)
- **Quadratic Expressions, Equations and Graphs** (3 videos, 4.8 hours)

Content of each chapter is given below.

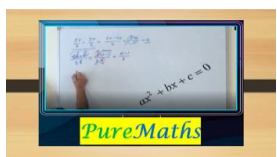
Arithmetic and Algebra



10 videos – 12.6 hours

- Session 1 - **Revision of Arithmetic** (2 videos. Part 1 – 1.7 h and Part 2 - 0.7 h)
Session 2 - **Revision of Arithmetic. Practice** (2 videos. Part 1 – 0.7 h and Part 2 – 1.5 h)
Session 3 - **Algebra. Rules, Concepts & Examples** (2 videos Part 1 – 1.5 h & Part 2 - 1 h)
Session 4 - **Algebra. Practice 1** (1 video – 1.3 h)
Session 5 - **Algebra. Practice 2** (1 video – 1.4 h)
Session 6 - **Algebra. Practice 3**. (2 videos. Part 1 – 1.1 h and Part 2 – 1.7 h)

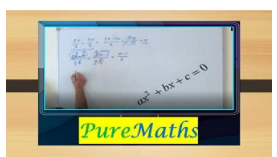
Linear Equation and Graph – Part One



7 videos – 10 hours

- Session 7 - **Linear Equations Concepts** (1 video – 1.3 h)
Session 8 - **Simultaneous Equations** (1 video – 1.6 h)
Session 9 - **Linear Equations. Practice 1** (1 video – 1.3 h)
Session 10 - **Linear Equations. Practice 2** (2 videos. Part 1 – 1.5 h and Part 2 – 1.5 h)
Session 11 - **Linear Equations. Practice 3** (2 videos. Part 1 – 1.5 h and Part 2 – 1.3 h)

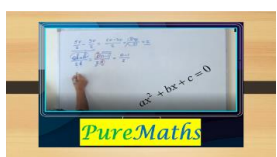
Linear Equation and Graph – Part Two



11 videos – 12.6 hours

- Session 12 - **Linear Graph. Theory and Examples**. (2 videos. Part 1 – 0.7 h and Part 2 – 1.5 h)
Session 13 - **Linear Graph. Practice 1** (3 videos. Part 1 – 1.4 h, Part 2 – 1.5 h and Part 3 – 0.8 h)
Session 14 - **Linear Function. Practice 2**. (2 videos. Part 1 – 1.1 h and Part 2 – 1.2 h)
Session 15 - **Application of Linear Relation. Practice 1** (2 videos. Part 1 – 1.2 h and Part 2 – 1.1 h)
Session 16 - **Application of Linear Relation. Practice 2** (2 videos. Part 1 – 1.1 h and Part 2 – 1.0 h)

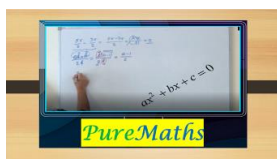
Quadratic Expressions, Equations and Graphs – Part One



3 videos – 4.8 hours

- Session 17 - **Factorising Quadratic Expression. Concepts and Examples** (1 video – 1.7 h)
Session 18 - **Quadratic Equation. Concepts and Examples** (1 video – 1.6 h)
Session 19 - **Quadratic Function Graph (Parabola). Concepts and Examples** (1 video – 1.5 h)

Semester 2



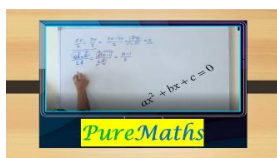
33 videos – 42.1 hours

Semester 1 contains the following chapters:

- **Quadratic Expression. Equation and Graph – Part Two** (4 videos, 5.8 h)
- **Quadratic Expression Equation and Graph – Part Three** (7 vid. 8.9 hrs)
- **Index & Logarithm Laws. Exponential & Log. Equation – Part One** (6 videos, 7.5 hours)
- **Index & Logarithm Laws. Exponential & Log. Equation – Part Two** (6 videos, 6.8 hours)
- **Pythagoras Theorem and Trigonometry – Part One** (4 videos, 5.6 hours)
- **Pythagoras Theorem and Trigonometry – Part Two** (6 videos, 7.5 hours)

Content of each chapter is given below.

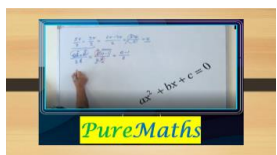
Quadratic Expressions, Equations and Graphs – Part Two



4 videos – 5.8 hours

- Session 20 – **Quadratics. Practice 1** (1 video – 1.4 h)
- Session 21 – **Quadratics. Practice 2** (1 video – 1.8 h)
- Session 22 – **Quadratics. Practice 3** (2 videos. Part 1 – 1.4 h and Part 2 – 1.2 h)

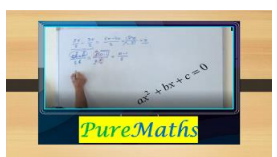
Quadratic Expressions, Equations and Graphs – Part Three



7 videos – 8.9 hours

- Session 23 – **Quadratics. Practice 4** (1 video – 1.6 h)
- Session 24 – **Quadratics. Practice 5** (2 videos. Part 1 – 1.1 h and Part 2 – 1.1 h)
- Session 25 – **Algebra involving Quadratics. Practice 1** (2 vid. Part 1 – 1.5 h, Part 2 – 0.8 h)
- Session 26 – **Algebra involving Quadratics. Practice 2** (2 vid. Part 1 – 1.7 h, Part 2 – 1.1 h)

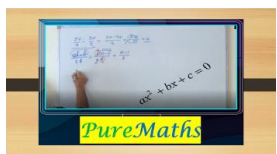
Index and Logarithms Laws. Exponential and Logarithmic Equations - Part One



6 videos – 7.5 hours

- Session 27 – **Index Law. Rules, Concepts and Practice 1** (2 videos. Part 1 – 1.1 h and Part 2 – 1.0 h)
- Session 28 – **Index Law. Practice 2** (1 video – 1.8 h)
- Session 29 – **Index Law. Practice 3** (1 video – 1.4 h)
- Session 30 – **Surds. Rules, Concepts and Practice 1** (2 vid. Part 1 – 1.4 h, Part 2 – 0.8 h)

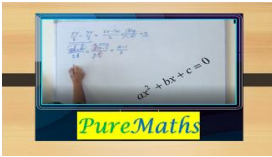
Index and Logarithms Laws. Exponential and Logarithmic Equations - Part Two



6 videos – 6.8 hours

- Session 31 – **Surds. Practice 2** (1 video – 1.1 h)
- Session 32 – **Surds. Practice 3** (1 video – 1.5 h)
- Session 33 – **Log Laws. Rules and Examples** (1 video – 1 h)
- Session 34 – **Exponential and Log. Equations. Concepts and Examples** (1 video – 1.2 h)
- Session 35 – **Exponential and Logarithmic Equations. Practice** (2 videos. Part 1 – 0.9 h and Part 2 – 1.1 h)

Pythagoras Theorem and Trigonometry – Part One



Session 36 - ***Pythagoras Theorem. Definition and Practice*** (2 videos. Part 1 – 1.3 h and Part 2 – 1.2 h)

Session 37 - ***Trigonometry - Definition. Terminology and Examples*** (1 video – 1.7 h)

Session 38 - ***Trigonometry - Further Terminology Definitions and Concepts*** (1 video – 1.4 h)

4 videos – 5.6 hours

Pythagoras Theorem and Trigonometry – Part Two



Session 39 - ***Trigonometry - Unit Circle. Functions and Equations.*** (2 videos. Part 1 – 1.2 h and Part 2 – 1.3 h)

Session 40 – ***Trigonometry. Practice 1*** (2 videos. Part 1 – 0.8 h and Part 2 – 1.5 h)

Session 41 – ***Trigonometry. Practice 2*** (2 videos. Part 1 – 1.3 h and Part 2 – 1.4 h)

6 videos – 7.5 hours