

MYP5 Extended Math

| | Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 |
|---|---|---|--|---|--|
| Unit title | Quadratic equations | Quadratic modelling | Geometry | Descriptive statistics | Exponential functions |
| Duration (weeks of instruction) | 5 weeks | 6 weeks | 8 weeks | 5 weeks | 4 weeks |
| Key Concept | Relationships | Relationships | Form | Relationships | Relationships |
| Related Concepts | model, pattern | model, pattern | change, space | measurement, representation | model |
| Global Context | Scientific and Technical Innovation | Globalization and sustainability | Personal and cultural expression | Identities and relationships | Scientific and Technical Innovation |
| Statement of Inquiry | Using mathematical equations and their properties can help us manage resources effectively. | Mathematical models help decision makers find optimal solutions to their problems. | Knowledge of changing forms allows us to create. | Studying populations can help us understand who we are. | Modeling exponential relationships can help us understand how populations grow |
| MYP Subject Objectives | A, B,C - all strands | A, B,C, D - all strands | B and C-all strands | C, D - all strands | A, B ,C- all strands |
| Approaches to Learning skills (ATLs) | Communication amd thinking skills | Communication amd thinking skills | Self management and thinking skills | Communication, self management and thinking skills | Communication,Research and thinking skills |
| Content | Quadratic equations, and its applications | Functions, quadratic functions and some standard functions | Trigonometry and circle geometry | Statistics and Probability | Algebra and Exponential functions |
| Summative Assessment Task(s) | Authentic assessment task for criteria C, D. Investigation on quadratics for criteria B and C. Unit test will assess criterion A. | Authentic assessment task for criteria C, D. Investigation on quadratics for criteria B and C. Unit test will assess criterion A. | Investigation on circle for criterion B,C | Authentic assessment task for criteria C, D. | Investigation on quadratics for criteria B and C. Unit test will assess criterion A. |
| Common Core standards | Algebra and Functions Standards | Algebra and Function Standards | Geometry Standards | Statistics and Probability Standards | Algebra Standards |

Please note: The curriculum is subject to change based on student learning needs and interests.

Common Core

Standards: <http://www.corestandards.org/Math/>

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