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| **MYP Year:** | 1 | **Subject Group:** | Math |

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| **Unit Title** | **Key Concept** *(1)* | **Related Concepts** *(2)* | **Global Context** *(1)* | **Statement of Inquiry** *(1 + 2 + 1)* | **MYP subject-group objective(s)** | **Content** (topics, knowledge, skills) |
| Ratios and Proportional Relationships  Ch. 1 and 2 | Relationships | Equivalence  Simplification | Gloabalization and Sustainability  (explore through poverty) | We use proportional relationships to communicate information.. | A, C | Ratios; unit rates; proportions; converting between fractions, decimals, and percents; microlending |
| **ATL SKILLS** | | | | | |
| **Category:** Communication **Cluster:** Communication **Skill Indicator:** Reading, writing, and using language to gather and communicate information  **Category:** Self-management  **Cluster:**  Organization **Skill Indicator:** managing time and tasks effectively **Category:** Thinking **Cluster:** Critical Thinking **Skill Indicator:** Analyzing and evaluating issues and ideas | | | | | |
| The Number System  Ch. 3 and 4 | Relationships | Representation  Systems | Globalization and Sustainability  (explore through connections to mathematics in the real world) | Recognizing relationships in the number system deepens understanding of mathematics in the real world. | A, B | Estimation; add, subtract, multiply, and divide decimals; multiplying and dividing fractions |
| **ATL SKILLS** | | | | | |
| **Ai: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** interpret data **Aii: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** test generalizations and conclusions **Aiii: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** test generalizations and conclusions | | | | | |
| Integers and Expressions  Ch. 5 and 6 | Logic | Quantities  Patterns | Orientation in time and space | Using logic, we can identify patterns to determine unknown quantities. | A,D | Integers, coordinate plane, expressions |
| **ATL SKILLS** | | | | | |
| **Ai: Category:** Communication **Cluster:** Communication **Skill Indicator:** make effective summary notes for studying  **Aii: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** test generalizations and conclusions **Aiii: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** test generalizations and conclusions **Di: Category:** Thinking **Cluster:** Transfer **Skill Indicator:** Use effective learning strategies in subject groups and disciplines **Dii: Category:** Thinking **Cluster:** Transfer **Skill Indicator:** combine knowledge, understanding and skills to create products or solutions **Diii: Category:** Thinking **Cluster:** Transfer **Skill Indicator:** apply skills and knowledge in unfamiliar situations **Dv: Category:** Thinking **Cluster:** Critical Thinking **Skill Indicator:** Evaluate evidence and arguments | | | | | |
| Equations and Inequalities  Ch. 7 and 8 | Relationships | Representation  Patterns | Scientific and Technical Innovation  (explore through models) | Representation of patterns reveal relationships we model. | B, D | Exponents; variables; expressions; distributive property; 1-step equations; functions; inequalities |
| **ATL SKILLS** | | | | | |
| **B i: Category:** Thinking **Cluster:** Transfer **Skill Indicator:** Combine knowledge; **B ii: Category:** Thinking **Cluster:** Critical Thinking **Skill Indicator:** Draw reasonable conclusions; **B iii: Category:** Thinking **Cluster:** Creative Thinking **B iv: Skill Indicator:** apply existing knowledge; **D i: Category:** Communication; **Cluster:** Communication **Skill Indicator:** make inferences; **D ii: Category:** Thinking **Cluster:** Transfer **Skill Indicator:** Apply skills and knowledge in unfamiliar situations; **D iii:** **Category:** Thinking **Cluster:** Critical Thinking **Skill Indicator:** Use models and simulations to explore complex systems; **D iv: Category:** Thinking **Cluster:** Critical Thinking **Skill Indicator:** Interpret data | | | | | |
| Geometry  Ch. 9 and 10 | Form | Measurement  Space | Personal and cultural expression | Through form, space and measurement are created. | A,C | Area of polygons and irregular figures; volume of rectangular and triangular prisms; surface area |
| **ATL SKILLS** | | | | | |
| **Ai: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** interpret data **Aii: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** test generalizations and conclusions **Aiii: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** test generalizations and conclusions **Ci: Category:** Communication **Cluster:** Communication Skills **Skill Indicator:** Understand and use mathematical notation **Cii: Category:** Communication **Cluster:** Communication Skills **Skill Indicator:** use and interpret a range of discipline-specific terms and symbols **Ciii: Category:** Communication **Cluster:** Communication Skills **Skill Indicator:** paraphrase accurately and concisely **Civ: Category:** Communication **Cluster:** Communication Skills **Skill Indicator:** Organize and depict information logically | | | | | |
| Statistics and Probability  Ch. 11 and 12 | Logic | Representation  Generalization | Personal and cultural expression | Statistics are a powerful model to develop global perspectives. | A, B, C, D | Measures of central tendency; mean absolute deviation; appropriate measures; line plots; histograms; box plots; line graphs; interpreting data distributions |
| **ATL SKILLS** | | | | | |
| **Ai: Category:** Thinking **Cluster:** critical thinking **Skill Indicator:** interpret data **Bi: Category:** Research **Cluster:** Information Literacy **Skill Indicator:** Collect, record, and verify data **Bii: Category:** Research **Cluster:** Information Literacy **Skill Indicator:** Process data and report results **Biii: Category:** Thinking **Cluster:** Critical-Thinking **Skill** **Indicator:** Draw reasonable conclusions and generalizations **Cii: Category:** Communication **Cluster:** Communication Skills **Skill Indicator:** Use appropriate forms of writing. **Civ: Category:** Communication **Cluster:** Communication Skills **Skill Indicator:** Organize and depict information logically **Dii: Category:** Thinking **Cluster:** Transfer **Skill Indicator:** combine knowledge, understanding and skills to create products or solutions **Diii: Category:** Thinking **Cluster:** Transfer **Skill Indicator:** apply skills and knowledge in unfamiliar situations **Div: Category:** Communication **Cluster:** Communication Skills **Skill Indicator:** paraphrase accurately and concisely **Dv: Category:** Thinking **Cluster:** Critical Thinking **Skill Indicator:** Evaluate evidence and arguments | | | | | |