**IBMYP Subject Overview**

**Subject Area:** Math **Course:**  6/7 **MYP Level:** Year 1 **Teacher(s)**: Zalewski & Wilt & Bains

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Time**  **Frame**  **(Dates)** | **Unit Topic & Topic (\*=interdisciplinary connection; @=Action)** | **MYP Objectives** | **State Standards** | **Key Concept** | **Related Concepts** | **Global Context** | **Statement of Inquiry** | **MYP Assessment Task**  **&**  **ATL Focus** | **MYP Criteria** | **Learner Profile Focus** |
| 4 weeks  (16 hours) | Unit 1: Rational Numbers | B | 7.1 abcde | Logic | Pattern, Simplification | Personal and Cultural Expression | Simplification and logic lead to patterns and shape metacognition and abstract thinking. | *Minute to Win it!*  Communication: Communication Skills | Investigate Patterns | Communicator  Thinker |
| 3 weeks  (12 hours) | Unit 2: Integers | C | 6.3  6.6abc | Relationships | Representation, System | Identities and relationships | Systems and representations generate relationships and shape lifestyle choices. | *3-2-1 Action*  Research: Information literacy skills | Communicating | Reflective  Communicator  Inquirer |
| 4 weeks  (16 hours) | Unit 3: Operations with Rational Numbers | D | 6.5abc  7.2 | Form | Representation, Equivalence | Scientific and technical innovation | Equivalency connects form and representation through processes and solutions. | *It’s Time to Play!*  Social: Collaboration | Applying mathematics in real-life contexts | Open-minded  Risk Takers |
| 4 weeks  (16 hours) | Unit 4: Expressions, Equations and Inequalities | A | 7.11  7.12  7.13 | Logic | Model, Quantity | Personal and Cultural Expression | Quantities and logic generate models and lead to artistry, creation, and beauty. | *It’s a Date!*  Communication: Communication Skills | Knowing and Understanding | Thinker  Balanced |
| 3 weeks  (12 hours) | Unit 5: Functions | B, C, D | 7.10 | Relationships | Model, Representation | Scientific and Technical Innovation | Understanding the relationship among representations of functions allows us. | *Function Machine*  Information Literacy Skills | Investigating patterns, Communicating, Applying mathematics in real-life contexts | Inquirers |
| 4 weeks  (16 hours) | Unit 6:  Proportional Reasoning | D | 7.3  7.5 | Relationships | Change, Quantity | Globalization and Sustainability | Relationships and change affect the quantity and alter urban planning, strategy, and infrastructure. | *Let’s Eat Out!*  Thinking: Transfer Skills | Applying mathematics in real-life contexts | Balanced  Caring  Inquirer |
| 4 weeks  (16 hours) | Unit 7: Probability and Statistics | C, D | 7.8  6.10  7.9 | Relationships | Generalization, Representation | Scientific and Technical Innovation | Establishing patterns in the  natural world can help in  understanding relationships. | *What’s My Stats?*  Information literacy skills | Communicating,  Applying mathematics in real-life contexts | Communicators |
| 5 weeks  (20 hours) | Unit 8: Measurement and Geometry | B, D | 7.4  7.6  7.7 | Form | Measurement, Space | Fairness and development | An analysis of measurement and space provide an understanding of form, which leads to fairness and development. | *Geometry Art in Math*  Organization skills | Investigating Patterns,  Applying mathematics in real-life contexts | Open-minded |

Support of Personal Project: In this class, students will develop skills to enhance their personal project. Some of these skills include building relationships with others and the world around them. Students will also develop mathematics skills that can be used in the real world. For example, students will justify and reason through problems to find a solution. They will also learn to reflect and evaluate their results to for a better understanding.