



## Integrated Math 2/2+

### 2020-2021

### Course Descriptions and Policies

Teacher	Room	Email	
Neil Whitehead	Math Room 3	nwhitehead@iskl.edu.my	
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**After School Math Help:** Mon, Tue, Thu 3:00 - 4:00 pm (Math Common Area)

#### Course Description

Students who have displayed a **high degree of competency in math** and wish to pursue a **more challenging program** may request this course. The core of the course is the same as Integrated Math 2, with core topics covered in more depth and breadth. In addition, some extension topics are presented including binomial probability distributions, complex fractions, polynomial functions, complex numbers, trigonometric identities, and the unit circle. Students who successfully complete this course will move onto IM3 or IM3+.

#### Units of Study

Unit 1: Algebraic Manipulation  
Unit 2: Probability of Success  
Unit 3: Function Formalities  
Unit 4: What Goes Up...  
Unit 5: Exponential Enthusiasm  
Unit 6: Coordinating Tools  
Unit 7: Trigonometric Trials

#### Materials/Resources

Students are expected to bring the following materials to every lesson:

- Graphic Display Calculator (TI-84 plus or TI-84 Plus CE recommended)
- Binder or folder for math only
- Notebook for math only
- Ruler
- Lined paper
- Graph paper
- Pencils and eraser
- Laptop



### **Assessment Criteria**

Students will receive a mark from 1 to 7 in each of the three reporting domains: Concepts, Procedures, and Problems Solving; Modelling and Inquiry; and Communication. The characteristics of a student performing at the highest level (7) in each domain are described in the table below. A complete list of descriptors for all performance levels in the three reporting domains are linked for reference below as well.

#### Concepts, Procedures, and Problem Solving    Modelling and Inquiry    Communication

The student demonstrates a **thorough** knowledge and **comprehensive** understanding of mathematical principles, **successfully** uses problem solving techniques and mathematical processes at a **sophisticated** level in **challenging** situations in a **wide variety of contexts**. The student **recognizes patterns and structures**, makes **generalizations, justifies conclusions**, understands and explains the **significance** and **validity** of results and draws **full** and **relevant** conclusions. The student **consistently** uses **appropriate** mathematical language and representation to present information **correctly**, and moves **effectively** between different forms of mathematical representation.

The student communicates through lines of reasoning that are **complete, coherent** and **concise** and presents work that is **consistently organized** using a **logical** structure.

Students will also receive feedback on their Learning Habits, according to the rubric below:

### **ISKL High School Learning Habits Rubric** *Reported as Secure, Developing, or Needing Attention*

#### **Readiness for Learning**

Learns Enthusiastically - Readiness

- Comes to class prepared, with materials effectively organized
- Meets deadlines
- Completes learning tasks thoroughly and thoughtfully

Proactively address future absences and makes up missed work

#### **Approaches to Learning**

Learns Enthusiastically - Approaches

- Engages actively, meaningfully, and positively in class learning activities
- Takes initiative for learning: asks questions, seeks assistance, sets goals and/or responds to feedback
- Exhibits persistence when learning is challenging

Takes risks as part of learning

#### **Collaboration in Learning**

Collaborates Constructively

- Demonstrates the ability to work effectively and respectfully with diverse teams
- Takes responsibility for his/her role in achieving common goals
- Contributes ideas and considers others' viewpoints



### **Homework**

The point of homework is to practice the concepts covered in class, to discover areas of weakness, and to communicate ideas clearly. It is expected that students attempt all homework questions, with steps clearly laid out. Homework must be brought to each class so that students can participate in the discussion and presentation of questions from the assignment and make corrections. It is important for students to ask questions and to clarify all problems. You can find the official ISKL Homework Policy [here](#).

### **Making Up Work from Absences**

Students need to inform their teachers of any upcoming absences for both school-related and non-school related events. Assignments and tests should be completed before the event if possible. **It is the student's responsibility to contact their teacher regarding all absences.**

### **Academic Honesty**

Students should demonstrate Academic Honesty in the completion of all assignments:

*"Today I am going to give you two examinations, one in trigonometry and one in honesty. I hope you will pass them both. But if you must fail one, let it be trigonometry."*

(Madison Sarratt, Vanderbilt University)

### **Classroom Rules**

- 1. Have all appropriate materials and supplies ready at your desk and be seated *as soon as class is scheduled to start.***
- 2. Respect the people, equipment, and furnishings of our classroom.**
- 3. Follow directions the first time they are given.**
- 4. No cursing or swearing.**
- 5. Give your best effort both in and out of the classroom! :)**