Workplace Mathematics 10
Course Outline

Course Overview

Workplace Mathematics 10 prepares students for math in the work place and focuses on real- world applications of mathematics. The course focuses on helping students build skills around four main ideas: proportional reasoning; measurement of 3-dimensional objects; number sense and flexibility with number; and representing and analyzing data to make sense of it. The course delivers instruction through videos in which students can made notes. There are assignments, chapter tests and projects in which students will apply their understanding and develop competencies.

Course Content and Suggested Timelines

The suggested timeline is for students aiming to complete the course in one semester (5 months). Double the timeframes for two semesters (10 months).

Chapter 1- Graphs (Suggested time: 2 -3 weeks)
Students will learn about how to represent data graphically in various formats such as line, bar, circle graphs as well as histograms, pictographs and infographics. Students will learn how to analyze different graphs and data to notice and wonder about relationships.

Chapter 2 - Conversions (Suggested time: 2-3 weeks)
Students will learn about the different measurement systems (imperial and SI or metric) and will learn to convert units between the two systems. Students will also learn about linear measurements and estimations. This chapter focusses on understanding conversions in the real- world and building confidence, meaning and understanding with the flexibility of number.

Chapter 3- Surface Area and Volume (Suggested time: 2-3 weeks)
Students will learn about how to measure three-dimensional objects both directly and indirectly. This chapter covers area, surface area and volume.

Chapter 4- Trigonometry (Suggested time: ~2 weeks)
This chapter involves primary trigonometric ratios (sine, cosine, tangent) of right-angle triangles to help students find angles and side lengths . This chapter centers around the main idea that proportional reasoning can be used to make sense of multiplicative relationships and has applications in everyday life and work.

Chapter 5- Central Tendency (Suggested time: ~2 weeks)
Students will learn about mean, median and mode as methods of measuring the “center”. Students will learn to represent and analyze data for understanding and to notice or wonder about relationships.

Chapter 6 - Probability (Suggested time: ~2 weeks)
Students will explore experimental probability through playing and creating games. Where possible, students will connect to theoretical probability.

Chapter 7 – Financial Literacy (Suggested time: 2-3 weeks)
This chapter focusses on gross and net pay; understanding various types of incomes, income tax and other deductions in preparation for life.

Final Exam Review (Suggested time: 1 week)
Students will write a final exam. Review time is suggested.

Course Materials

All lessons and resources are included in the online course. There is no textbook for the course. The prescribed learning outcomes for this course are available at: Workplace Math 10 Curriculum

Assessment Information

Chapter tests	30% of course
Projects	20% of course
Assignments	10% of course
Note Packages and Practice Questions	10% of course
Final Exam	30% of course

Chapter tests: (10%)
There are seven chapter tests in this course. Please note that all chapter tests are "CLOSED BOOK" tests, which means that students are not permitted to use notes or any other reference materials to help answer the questions. ***Students are permitted to use data pages and their calculator***. Your chapter tests must be **supervised by a parent or trusted adult.**

Projects: (20%)
Chapters contain a project in which students apply their learning from the chapter. Each project is graded based a rubric.

Assignments: (10%)
Assignment are designed to help students understand the material after each lesson. Assignments are graded for completion.

Note Packages and Practice Questions: (10%)
Students will hand in their notes after the lessons and note packages are marked for completion. Practice questions are assigned and must be completed; these are also graded for completion.

Final Exam: (30%)
There will be a final exam for Workplace Math 10 that covers all chapters. The exam is CLOSED BOOK, which means that students are not permitted to use the textbook or any other reference materials to help answer the questions***.*** ***Students are permitted to use data pages and their calculator.*** The Final exam is to be ***INVIGILATED by an EBUS approved invigilator.*** Please **contact your teacher AT LEAST 1 week prior** to when you want to write your final exam.

Supervised and Invigilated Tests/Exams:

Supervised exams are exams that can be taken at home with parent or other adult supervision. All unit tests are to be supervised by an adult.

Invigilated exams are exams that need to be invigilated by EBUS approved invigilators. There are two invigilated exams for Workplace Math 10: one chapter test and the final exam.

When students are not meeting the learning outcomes/ falling behind

When students fall behind the expected pace or plan, they will be contacted via email or phone and if there is no improvement or response, parents will also be contacted. If deemed necessary, contact with the student's home school may also occur to help determine a solution.

Students are expected to let the course teacher know when they are struggling with course content. In response, the course teacher will provide appropriate help or strategies to support learning. The course teacher will also provide feedback on course work to support learning and help students improve. Parents will be made aware if their child is actively working but struggling to meet the learning outcomes of the course.

Students falling behind in a manner where it does not appear that they will complete the course within a year will be sent reminder emails. Without a response or renewed efforts in the course, the student may be assigned an F or withdrawn. Should they begin actively working in the course, the student may be given an alternate completion date.

Expectations

- Adhere to the EBUS Academic Integrity Policy
- Contact your teacher when help is needed
- Review feedback from assignments and tests, where applicable
- Work to complete the course in a timely manner
- Communicate respectively
- Review weekly progress reports

Reporting to Parents:

There are 4 term report cards that can be downloaded from the student dashboard. A notice will go out when these report cards are available.

Every week that EBUS is in Session the teacher will send out a progress report showing the student's progress.

Contacting Your Teacher:

Your teacher will be available Monday to Friday during regular school hours. If you are having trouble with any concepts, please contact your teacher right away!

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