

Course Name: Grade 1 Mathematics
Course Codes: E2102, E2107, E2109

Course Description:

The first grade mathematics program encourages children to be actively involved in doing mathematics through measuring, observing, data handling, sorting, counting, and graphing. These experiences are linked to reading, language arts, science, and social studies. There is a strong emphasis on verbal problems, mental problem solving, estimates, and the uses of calculators. Partner and small group activities encourage children to share their thinking and ideas with their peers.

Learning takes place with the use of a wide variety of materials including: rulers, tape measures, geometry templates, money, and calculators. When appropriate, children also use pattern blocks, weighing scales, and number blocks. Their “Fact Power” is developed in association with real life uses of numbers.

Course Proficiencies: The following is a list of the proficiencies that describe what students are expected to know and be able to do as a result of successfully completing this course. The proficiencies are the basis of the assessment of student achievement. The learner will demonstrate the ability to:

1. Perform rational counting (count 1’s, 2’s, 5’s, 10’s, 100’s). *1.OA.1, 1.NBT.1, 1.OA.5*
2. Order a series of numbers, identify ordinal position 1st through 10th. *1.MD.1*
3. Find patterns in addition and subtraction facts. *1.OA.3, 1.OA.4*
4. Add and subtract using a number grid. *1.OA.5, 1.OA.6*
5. Use symbols +, -, =, . *1.OA.7, 1.OA.8*
6. Understand the concepts of addition and subtraction. *1.OA.1, 1.OA.2*
7. Use a calculator to add and subtract large numbers.
8. Write / solve addition and subtraction number sentences and stories. *1.OA.1, 1.OA.2*
9. Read and write two and three-digit numbers. *1.NBT.1*
10. Use place value to compare two and three digit numbers. *1.NBT.2*
11. Measure to nearest inch and centimeter. *1.MD.1, 1.MD.2*
12. Tell time to hour and 1/2 hour. *1.MD.3*
13. Recognize pennies, nickels, dimes and quarters. *2.MD.8*
14. Show monetary amounts with coins. *2.MD.8*
15. Use cent and dollar notations. *2.MD.8*
16. Exchange coins for equal monetary values. *2.MD.8*
17. Compare quantities using > and < symbols. *1.NBT.3*
18. Use a balance to show equivalent / non-equivalent quantities. *1.OA.7, 1.NBT.3*
19. Recognize, describe and name two and three-dimensional geometric shapes. *1.G.2*
20. Recognize, describe, and extend patterns with objects, shapes, and numerals. *1.G.1, 1.G.2*
21. Collect, organize, and record data based on everyday experiences (i.e., weather, temperature).
1.MD.4

Grade 1 Proficiencies – *cont'd.*

22. Describe shares using unit fractions. ***1.G.3***
23. Apply mathematics in practical situations and in other disciplines.
24. Use critical thinking skills to make sense of problems, solve them, and communicate processes. ***CRP 2, 4 & 8.***
25. Use technology to gather, analyze, and communicate mathematical information. ***8.1.2.A.4, 8.1.2.F.1***

Assessment: At grade one, student progress in mathematics is measured using a variety of tools and resources. These may include checklists of skills, teacher observations, teacher-made assessments, performance on “explorations” and end of the unit review and assessment activities. The NWEA MAP Growth assessment will be administered three times a year in mathematics. The purpose of MAP Growth is to determine what students know and are ready to learn next. It is designed to measure student achievement in the moment and growth over time.

Board Adopted Materials:

Teaching Resources and Related Student Materials:

Title: Everyday Mathematics
Author: University of Chicago School Mathematics Project
Publisher: McGraw-Hill Companies, Inc.
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