

THIRD GRADE MATHEMATICS

June 2021

Mathematical Practice Standards: Make sense of, communicate, connect and justify mathematical ideas to support understanding and learning across all mathematical concepts

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

Represent and Understand Multiplication and Division

- Develop an understanding of the meanings of multiplication and division.
- Apply properties of operations as strategies to multiply and divide and represent and solve multiplication and division problems within 100 (3.OA.1-6)
- Fluently multiply and divide within 100 and know from memory all products of two one-digit numbers (3.OA.7)

Develop Understanding of Fractions


- Students develop an understanding of fractions as numbers with 2, 3, 4, 6 and 8 as denominators. (3.NF.1)
- Students understand unit fractions as one part of the whole written with numerator and denominator (3.NF.1, 3.G.2)
- Students represent a fraction as a number on a number line (3.NF.2)
- Students understand fraction equivalence with visual models and number lines and compare two fractions with the same numerator or same denominator (3.NF.3)

Solve Problems Involving Measurement

- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects (3.MD.2)
- Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch (3.MD.4)
- Recognize perimeter as an attribute of plane figures and distinguish between linear and area measures (3.MD.8)

Supporting Standards: Number and Operations in Base Ten, Data, Geometry

- Understand place value (3.NBT.1-4).
- Use place value understanding and properties of operations to add and subtract (3.NBT.5-9).
- Solve two-step problems, assess the reasonableness of answers, and use order of operations. (3.OA.8). Identify and explain arithmetic patterns. (3.OA.9).



DISPOSITIONS, ESSENTIAL SKILLS, AND KNOWLEDGE

Priority Standards

- Tell and write time to the nearest minute and solve addition and subtraction problems involving elapsed time. (3.MD.1) Measure and estimate liquid volume and mass. (3.MD.3) Recognize area as an attribute of planar figures. Measure area by counting squares and relate area to the operations of multiplication and addition. (3.MD.5-7).
- Understand that shapes in different categories may share attributes and that shared attributes can define a larger category. Recognize and reason about special quadrilaterals. (3.G.1).