

Resources in Mathematics:

Fundamental Grade 3 Mathematics



Key Concept

- The fundamental mathematics concepts developed in K-5 serve as the building blocks that prepare students for learning more advanced mathematics concepts.

Where They've Been:

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- Represent and solve problems involving addition and subtraction
- Add and subtract within 20
- Understand place value
- Use place value understanding and properties of operations to add and subtract
- Measure and estimate lengths in standard units
- Relate addition and subtraction to length

Where They Are:

3

- Represent & solve problems involving multiplication and division
- Understand properties of multiplication and the relationship between multiplication and division
- Multiply & divide within 100
- Solve problems involving the four operations, and identify & explain patterns in arithmetic
- Develop understanding of fractions as numbers
- Solve problems involving measurement and estimation of intervals of time, liquid volumes, & masses of objects
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition

Where They're Going:

4

- Use the four operations with whole numbers to solve problems
- Generalize place value understanding for multi-digit whole numbers
- Use place value understanding and properties of operations to perform multidigit arithmetic
- Extend understanding of fraction equivalence and ordering
- Build fractions from unit fractions by applying and extending previous understandings of operations
- Understand decimal notation for fractions, and compare decimal fractions

Resources in Mathematics:

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- These are key areas of focus in the standards for building students' foundational math skills.
- Some topics in each grade require more focus because they are more challenging and important for future success in fundamental mathematics. However, all content is important, and skipping any areas can create learning gaps that affect students later.

Major Focuses within Grade 3

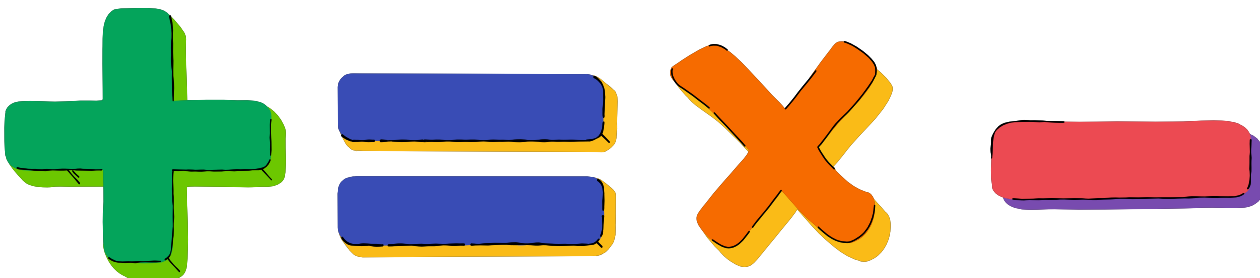
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- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.

Supporting Focuses within Grade 3

- Represent and interpret data.
- Reason with shapes and their attributes.

Additional Focuses within Grade 3

- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.



Citation

Student Achievement Partners. (2014, November 12). *SAP Focus Math K–8* [PDF]. Achieve the Core. <https://achievethecore.org/content/upload/SAP%20Focus%20Math%20K%E2%80%938%2011.12.14.pdf>