

# K-3 Mathematics in the School District of the Chathams

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Presented by  
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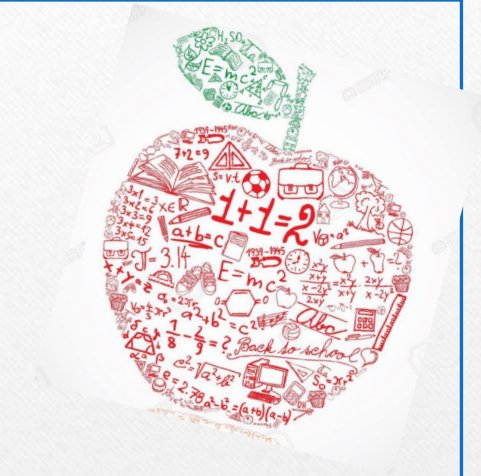
Fall 2018

# Mathematics

## Curriculum

### Fluency

### Problem Solving



# Mathematical Practices

Mathematical Practice #1:

**I CAN SOLVE  
PROBLEMS  
WITHOUT GIVING UP.**

Mathematical Practice #2:

**I CAN THINK  
ABOUT NUMBERS IN  
MANY WAYS.**

Mathematical Practice #3:

**I CAN EXPLAIN MY  
THINKING AND TRY TO  
UNDERSTAND OTHERS.**

Mathematical Practice #4:

**I CAN SHOW  
MY WORK  
IN MANY WAYS.**

# Mathematical Practices

Mathematical Practice #5:

**I CAN USE MATH  
TOOLS AND EXPLAIN  
WHY I USED THEM.**

Mathematical Practice #6:

**I CAN WORK  
CAREFULLY AND  
CHECK MY WORK.**

Mathematical Practice #7:

**I CAN USE WHAT I  
KNOW TO SOLVE  
NEW PROBLEMS.**

Mathematical Practice #8:

**I CAN SOLVE PROBLEMS  
BY LOOKING FOR RULES  
AND PATTERNS.**

# Pearson → Pearson 2.0

Best practice of Concrete to Abstract

Concrete

Visual Model

Guided Practice








Independent Practice (abstract)

- Varied question types on both HW problems and assessments
- Enhanced technology resources
- More problems and greater depths of knowledge
- More problem solving and explain questions embedded in each section



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### 3-1: Add Tens and Ones on a Hundred Chart

- 1  Student's Edition eText: Grade...
- 2  Interactive Student Edition: G...
- 3  Add Tens and Ones on a Hundred...
- 4  Add Tens and Ones on a Hundred...
- 5  Add Tens and Ones on a Hundred...
- 6  Game: Robo Launch - 2-Digit Nu...
- 7  Add Tens and Ones on a Hundred...

# Exemplars Problem Solving

1. **Read** and then tell the problem in your own words.

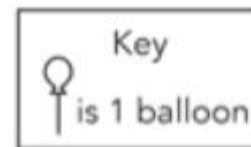
2. Model/**Build** it.



3. Draw a **PICTURE** to *match* the problem.  
**LABEL** it.



4. Draw a **PICTURE KEY**.



5. Write an **EQUATION**.

$$14 - 7 = 7$$

$$7 + 7 = 14$$

6. Explain in **WORDS**.

# Reflex → Splashmath

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Fluency Plus

Used in grades K - 5

Used in school (stations) and at home

Teachers can assign individual practice



## Math Fact Practice (Pick any operator to play)



### Choose Numbers

1

2

3

4

5

6

7

8

9

10

11

12

### More Options

Number of questions < 10 >

Range of numbers < 0-12 >

Answer type < choices >

Timer < elapsed >

Time for questions < 1 min 30 secs >

Start



Which multiplication sentence is represented by the model?

14



$4 \times 1$

$5 \times 2$

$4 \times 2$

$5 \times 3$

# Homework

Splashmath or Pearson

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1. **Practice**
2. **Preparation**
3. **Extend or elaborate**

Of these purposes, the most valuable in producing measurable academic gains is practice for the purpose of building proficiency, maintaining mastery or both.

... in existing studies, it is evident that when homework is used to build fluency and maintain proficiency, student performance is most positively affected.

