

# MATH NEWS

Grade 1, Module 3, Topic C

## 1<sup>st</sup> Grade Math

*Ordering and Comparing Length Measurements as Numbers*

### Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in the Engage New York material taught in the classroom. Module 3 of the Engage New York material covers Ordering and Comparing Length Measurement as Numbers. This newsletter will discuss Module 3, Topic C.

Topic C. Non-standard and Standard Length Units

#### Words to know

- Non-standard
- Ruler
- Centimeter Cube
- Rename

Centimeter cubes are cubes that are one centimeter square.

#### In Lesson 7

Students will begin to measure objects with two different **non-standard** length units such as toothpicks and paper clips.



The pencil is 3 paper clips long or 4 toothpicks long.

They will explore why it is important to use the same sized length unit, and realize that doing so yields consistent results.

## OBJECTIVE OF TOPIC C

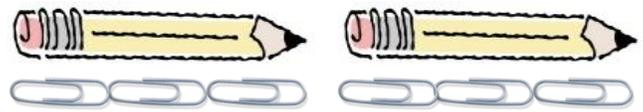
- 1 Measure the same objects from Topic B with different non-standard units simultaneously to see the need to measure with a consistent unit.
- 2 Understand the need to use the same units when comparing measurement with others.
- 3 Answer compare with difference unknown problems about lengths of two different objects measured in centimeters.

## Focus Area– Topic C

*Non-standard and Standards Length Units*

#### In Lesson 8

Students explore what happens when they use different units of measurement from that of their classmates. They will discover that in order to have a discussion about the length of things they must measure with the same units.

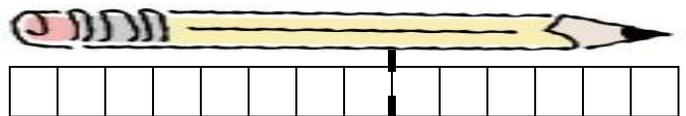


#### In Lesson 9

Students will solve compare with difference unknown word problems using centimeters. They will answer questions such as “Is the pencil longer than the crayon?” or “How much longer is the pencil than the crayon?” They will realize how valuable it is to measure things with a standard unit of measurement.

Kim’s pencil is 14 centimeters long. Joey’s pencil is 8 centimeters long. How much shorter is Joey’s pencil?

Kim’s Pencil



Joey’s Pencil



Kim has 6 more centimeter cubes than Joey, so Joey’s pencil is 6 centimeters shorter than Kim’s pencil.

Some students may recognize that this is just a subtraction problem. They may decompose the 14 and subtract 8 like they were shown in previous units.