



Summer work at Hancock Day School is an important component of the academic program. The purpose of summer work is to provide specific instructional practice on those essential standards for entry into the next grade level.

Students are to practice the skills (as detailed below) a minimum of 300 minutes/ 5 hours. Students may complete minutes in the manner that best supports family travel and summer plans (i.e. more minutes some weeks and fewer minutes other weeks). Students have unlimited access to grade level curriculum and are to continue to practice throughout the summer even if mastery of the assigned standard (80%) is accomplished. Teachers will view the time spent practicing, problems practiced, the number of skills attempted/mastered upon return to school. Please see letter below concerning multiplication facts expectations.

Class credit will be assigned for completion.

Please note:

- Letter and/or number can be subject to change (IXL system updates). Please match the math skill name.
- Students will be able to log in from June 5th – August 10th.

IXL Math:Grade 2 Skills Math Practice

Skill(s): Comparing and ordering

B.2 Comparing numbers up to 1,000

B.3 Put numbers up to 100 in order

Skill(s): Addition- two digits

G.10 Add two two-digit numbers- with regrouping

G.17 Write the addition sentence - up to two digits

G.22 Addition word problems- four numbers up to two digits each

Skill(s): Subtraction- two digits

H.10 Subtract two two-digit numbers- with regrouping

H.14 Subtraction word problems- up to two digits

H.16 Write the subtraction sentence- up to two digits

Skills: Estimation and Rounding

N.1 Estimate to the nearest ten

N.2 Round to the nearest ten

N.3 Round to the nearest ten or hundred

Skill(s): Money

P.10 Add money- up to \$1

P.12 Subtract money- up to \$1

P.11 Add money- up to \$1: word problems

P.13 Subtract money- up to \$1: word problems

P.17 Purchases- do you have enough money- up to \$5

Skill(s): Time

Q.2 Match analog clocks and times

Q.5 Read clocks and write times

Skill(s): Addition- three digits

I.5 Addition with three-digit numbers

I.7 Addition word problems- up to three digits

Skill(s): Subtraction - three digits

J.6 Subtract three-digit numbers

J.8 Subtraction word problems- up to three digits

Skill(s): Units of measurement

S.2 Measure using an inch ruler

S.8 Measure using a centimeter ruler

Dear families,

A big part of third grade will be focusing on mastering the basic multiplication and division facts. We encourage each student to begin learning their multiplication facts this summer. Below is more information about the importance of fact fluency.

What is fact fluency? Math fact fluency, or the ability for students to recall basic math facts quickly, accurately, and effortlessly, is an essential component of students' math knowledge. It would take you ages to write a paper if you had to look up the spelling of each individual word. In the same way, lack of fact fluency can slow down students' processing of more complex math problems and situations. Recent research shows the importance of fact fluency as a foundation for more difficult math, and even as a predictor of future math success. For these reasons, fact fluency is one important component of our math curriculum next year.

How do we build fact fluency? It is important to realize that fact fluency is not just memorizing the basic facts. During class, we will focus on building students' conceptual understanding of the basic math facts, rather than focusing solely on memorization. We will encourage children to focus on looking for patterns and relationships between the facts, building on and connecting to what facts they already know (for example, if students know $5 \times 5 = 25$, 5×6 is one more group of 5, or 30). This conceptual framework anchors students' recall in meaning. In other words, students are making meaningful connections that make remembering the facts easier.

What can we do to help? Students will also be required to practice math facts at home. This extra practice helps the brain transition facts from short-term memory into long-term storage. Practicing can be as easy as quizzing your child in the car on the way to school, or doing flashcards while dinner is cooking. A quick internet search will provide tons of great websites and apps that provide practice opportunities.

Thank you for your support,

Third grade team