COWICHAN VALLEY School District

Math Screener

Grade Two

September 2025

Grade 2 Math Screener

The Cowichan Valley Mathematics Assessment has been designed as a common formative assessment and universal screener for our district. Each grade level assessment is based on foundational skills from the prior year. The assessment is also designed to allow educators to use prior grade assessments to identify learning needs of students. The screener questions align directly with the identified foundational skills found in instructional resource documents for each grade. Access the documents here:

https://bit.ly/MathInstructionalResources

The information gained from this tool will serve as a universal screener for our district's tiered instruction model. The data will inform individual, small group, and class instruction. It will also help identify patterns of instructional needs in a class, school or across the district as we work to ensure students master these foundational skills.

Each fall, classroom teachers and school teams will work together to identify each student's strengths and needs with foundational mathematics skills. Teachers are encouraged to administer the assessment in **small sections during the first eight weeks** of the school year.

The Mathematics Assessment has been designed in partnership with teachers across our district with the following foundational principles:

1. Aligned with curriculum standards from the previous grade
2. First Peoples Principles of Learning
3. Assessment *with* and *for* our learners; not *to* our learners

In addition, teachers are invited to paraphrase directions to align with classroom language, use classroom materials (alternate concrete materials, dry erase boards, flash cards), and administer the assessment in small parts.

Each grade level screener is an inventory of skills and does not represent the full, complex set of skills necessary for proficiency in mathematics. Our district's Numeracy Framework provides more in- depth information, instructional resources, and intervention strategies.

The Grade Two assessment is conducted in **two parts**: a one-on one interview and a written response format that should be led by the teacher. The placement was adapted from one made by Jessica Stubbs.

Scoring is yes (shows mastery) or no. Where the student is required to provide more than just a numerical answer, some elaborations may be given in the key to help teachers determine mastery. To enter scores, teachers will input data into the dashboard.

Thank you to all the teachers who were involved in the creation of these screeners. Your tireless service to your colleagues and the children of the district is very appreciated.

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Math Screener - Grade Two

Name: _____

Patterning

Make an ABC pattern

Manipulatives **/1**

Place Value

Make 12 using rods and cubes.

Draw 12. (lines, x's etc.)

Print the number 12. **/3**

unifix cubes, whiteboard

Matching Numerals

What number is this?

Number Cards **/1**

Counting

Count by 1s.
(Start at 1, stop at 20)

Count by 5s.
(Start at 5, stop at 20)

Count by 2s.
(Start at 2, stop at 20) **/3**

1:1 Correspondance

How many items are here?

How many items are there now?

Rearrange the items (14)

/2

Decomposition: Adding

Show 11 counters, 5 in one group and 6 in the other.

Write a number sentence.

eg. 5+6= 11

Rearrange the counters. Can you make a new number sentence?

eg. 3+8= 11 **/2**

Decomposition: Subtraction

Use 11 counters, move 3 over. Write a number sentence that shows what me moved. (11-3=8)

Make a new sentence. **/2**

Instructions

The Grade Two assessment it conducted as one-on-one interview. Scoring is yes (shows mastery) or no.

Notes

Fact Fluency

Addition **/4**

Subtraction **/4**

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Teacher Instructions

Name: _____ Date: _____

Patterning		*Notes*
"**Make an ABC pattern using these 12 objects.**" (use any manipulatives such as unfix cubes, bears etc.).	☐ Yes ☐ No	
Place Value		
"Using these objects make the number 12."	☐ Yes ☐ No	
Provide whiteboard and marker. On the whiteboard "**draw 12 of something (shapes, lines).**"	☐ Yes ☐ No	
"Print the number to represent the number 12."	☐ Yes ☐ No	
Matching Numbers		
Lay the cards out one at a time. **"What number is this?"** Use number identification cards: 4,5,8,12,17,20	☐ Yes ☐ No	
Counting (Forwards)		
"Count by 1s" (start at 1, stop at 20).	☐ Yes ☐ No	
"Count by 5s" (start at 5, stop at 20).	☐ Yes ☐ No	
"Count by 2s" (start at 2, stop at 20).	☐ Yes ☐ No	

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1:1 Correspondence		*Notes*
Start with 14 objects in a group (eg., unifix cubes, bears etc.). Ask: **"How many objects are here?"**	☐ Yes ☐ No	
Spread out the same items**.** Ask: **"How many objects are there now?"**	☐ Yes ☐ No	
Decomposition: Addition		
Using 11 objects, make (build) two piles (eg. 5 & 6). "**Write a number sentence that tells us about these two groups**." "(eg. 5+6=) Give an example of a number sentence (visual and oral)	☐ Yes ☐ No	
"**Can you rearrange the objects and write a different number sentence**?" (eg.8+3=)	☐ Yes ☐ No	
Decomposition: Subtraction		*Notes*
Use 11 objects. Separate 3 counters from the pile. "**Write a number sentence that tells about the objects that were moved.**" (eg. 11-3=) (re-word this instruction as necessary for comprehension)	☐ Yes ☐ No	
Move the objects back. "**Can you take away some objects out of the pile to write a different number sentence**?" (provide an example: 11-5)	☐ Yes ☐ No	
Fact Fluency: Addition and Subtraction		
Teacher Instructions: - Students should be given access to tools (i.e. number lines, counters, etc). - Can be administered as a whole class teacher led assessment.		

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Student Response Page

Name: _____

Addition	
1 + 6 =	**7 + 3 =**
8 + 7 =	**9 + 0 =**

Subtraction	
10 – 5 =	**9 – 1 =**
17 – 6 =	**12 – 3 =**

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Scoring Sheet for Dashboard Entry

Student Name:_____

Date:_____

Patterning	____/1
Place Value	____/3
Matching	____/1
Counting	____/3
Correspondence	____/2
Decomposition: Addition	____/2
Decomposition: Subtraction	____/2
Fact Fluency: Addition	____/4
Fact Fluency: Subtraction	____/4

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5	8
12	17
20	4