



Mathseeds Testing, Assessment and Reporting

Assessment is necessary to monitor progress, to identify strengths and weaknesses, and to inform further instruction. As an interactive online program, **Mathseeds** incorporates a range of assessment tools both embedded into lesson progress and in more formal testing scenarios. These assessment opportunities enable teachers to make a balanced judgment on the achievement levels of students across key mathematical skills and standards. These assessments present students with multiple avenues to show their knowledge and have distinct structures to cater for a wide range of students. Using a suite of assessment tasks provides teachers with the necessary tools they need to track student progress and to inform their teaching.



www.mathseeds.com

Placement Test

At the commencement of the program students can complete the **Mathseeds** Placement Test to ensure they begin the program at a level that matches their ability. The placement test is progressive in difficulty level with students only needing to complete the number of questions that are within their existing skill level.

Mathseeds Placement Test screen



Once placed, teachers can see each student's starting point and how this matches to progress within the grade level. Continuing student progress can be seen in your Teacher Dashboard on the Student Charts Progress Screen.

Teachers can also choose to manually place their students at a specific starting point within the **Mathseeds** program.

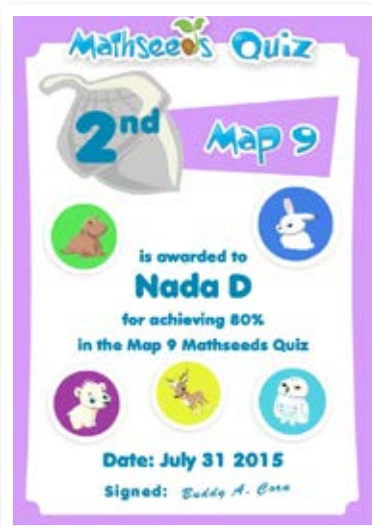
End of Map Assessments

The **Mathseeds** program is divided into a series of maps, each containing five lessons. At the end of each map, students complete an assessment quiz. The 15 questions in each quiz assess the student's mastery of the skills and content covered in the previous five lessons. Students must pass these tests to proceed to the next set of lessons. The pass mark for an end of map quiz is 10 out of 15. This allows students to show their level of attainment in the concepts and skills learned in the lessons. The results provide valuable data for both teachers and students about concept development, understanding, fluency, and problem-solving skills.

End of Map Quiz question screen



Students are awarded Merit certificates based on their quiz scores. These reward sustained effort and promote high achievement levels. A score of 14 or 15 earns a gold certificate; 12 or 13 a silver award; and 10 or 11, a bronze certificate. Pedagogical research informs us that such rewards help to maintain student interest and motivation. Students can redo the end of map assessments to try to improve their score.

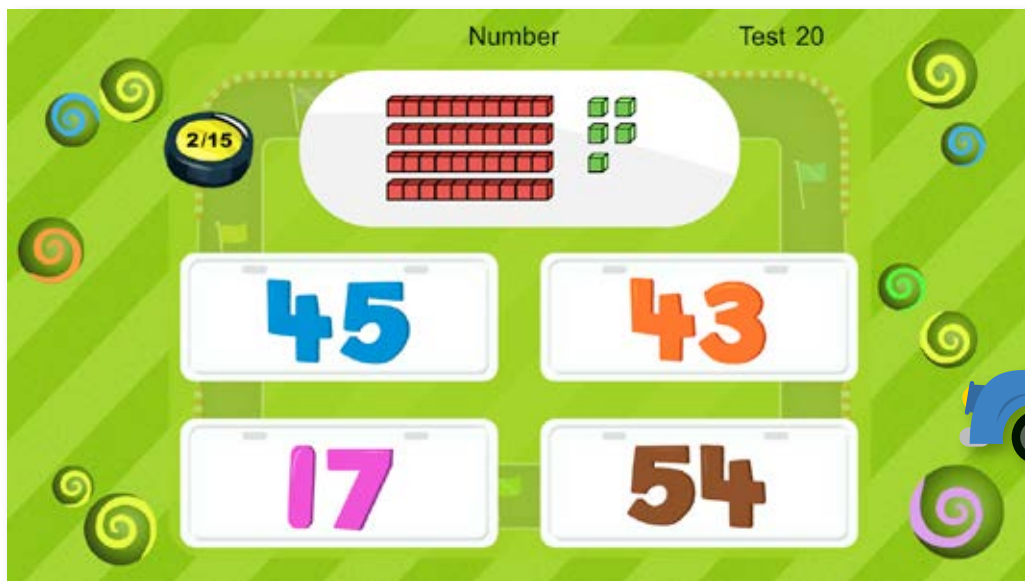


Driving Tests

These quick but comprehensive tests assess student knowledge in essential mathematical skills. The Driving Tests are organized into six content areas: Number, Operations, Patterns and Fractions, Measurement, Geometry, and Data. Within these content areas, each skill is covered by a unique test. As students complete the tests, they progress through levels of attainment to mastery in the content area. The aim is to build towards thorough knowledge of each of the grade level Common Core State Standards for mathematics.

These assessments include responsive feedback that requires students to redo questions they get wrong. This allows students to critically evaluate incorrect responses to reinforce correct mathematical thinking. The pass mark for each Driving Test is 100% as the aim is to prove the student's mastery of each particular skill before they move on to the next test. Teachers receive detailed feedback on all attempts at each test, which provides valuable information to help assess a student's mathematical reasoning and fluency.

Driving Test question screen



Achievement Standards Assessments

Domain-based Written Tests

The **Mathseeds** Teaching Resources section provides a number of paper-based assessments for students to complete offline. The Achievement Standards Assessments are sets of printable tests organized by Domain. They test skills and knowledge in a specific domain with a series of progressively more difficult 2-page tests. The mix of multiple choice and short answer assessments provide variety and useful practice for many standardized state and national tests.

Grade 1 • Achievement Standards Assessments

Number and Algebra: Operations

Common Core State Standards

Operations & Algebraic Thinking

Represent and solve problems involving addition and subtraction.

1.OA.A.3 Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing.

1.OA.A.8 Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20.

1.OA.B.4 Understand subtraction as an unknown-addend problem.

1.OA.C.6 Add and subtract within 20.

1.OA.C.8 Apply properties of operations as strategies to add and subtract.

1.OA.D.7 Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false.

1.OA.D.8 Determine the unknown whole number in an addition or subtraction equation relating three whole numbers.

Number & Operations in Base Ten

Use place value understanding and properties of operations to add and subtract.

1.NE.C.4 Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones, and sometimes it is necessary to compose a ten.

1.NE.C.6 Subtract multiples of 10 in the range 10–90 from multiples of 10 in the range 10–90 (positive or zero differences).

The Tests

Test 1 Add and subtract groups

Test 2 Add and take away

Test 3 Writing sums

Test 4 Subtraction

Test 5 Addition and subtraction sums

Test 6 Add and subtract to 100



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Number and Algebra: Operations



Test 1 • Add and Subtract Groups



Name: _____ Date: _____



How many in each group? Count on to find the total.

1   $\square + \square = \square$

2   $\square + \square = \square$

3   $\square + \square = \square$

4   $\square + \square = \square$

5   $\square + \square = \square$

6 $3 + 4 = \square$ 7 $5 + 3 = \square$

8 $6 + 2 = \square$ 9 $8 + 2 = \square$

10 $1 + 7 + 2 = \square$


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Number and Algebra: Operations


Test 1 • Add and Subtract Groups


Name: _____ Date: _____


How many left?


11 Take 7 away from this group.  $\square - \square = \square$

12 Take 9 away from this group.  $\square - \square = \square$

13 Take 4 away from this group.  $\square - \square = \square$

14 Take 3 away from this group.  $\square - \square = \square$

15 Take 0 away from this group.  $\square - \square = \square$

16 Take 8 away from this group.  $\square - \square = \square$

17 $8 - 4 = \square$ 18 $10 - 5 = \square$

19 $9 - 4 = \square$ 20 $9 - 5 = \square$

Number of Correct Answers: _____ out of 20


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
Number and Algebra: Operations

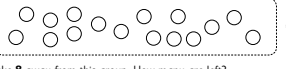
Test 2 • Add and Take Away


Name: _____ Date: _____

Add and subtract groups.

1  $\square + \square = \square$

2  $\square + \square = \square$

3 Take 7 away from this group. How many are left?  $\square - \square = \square$

4 Take 8 away from this group. How many are left?  $\square - \square = \square$

Complete these sums.

5 $8 + 5 = \square$ 6 $7 + 3 = \square$

7 $4 + 7 = \square$ 8 $8 - 5 = \square$

9 $7 - 3 = \square$ 10 $10 - 7 = \square$

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Number and Algebra: Operations

Test 2 • Add and Take Away

Name: _____ Date: _____

Shade the bubble beside the correct answer.

11 I have 6 toys and you have 6 toys. How many toys altogether?
☐ 6 ☐ 12 ☐ 3 ☐ 2

12 You had seven toys. You lost three of them. How many left?
☐ 1 ☐ 3 ☐ 4 ☐ 6

13 If you found 3 toys and then 5 more, how many toys did you find?
☐ 8 ☐ 5 ☐ 10 ☐ 13

14 I have 10 toys. I give you 4. How many toys left?
☐ 10 ☐ 6 ☐ 1 ☐ 14

15 What is double three?
☐ 3 ☐ 13 ☐ 9 ☐ 6

Answer these problems.

16 What is five plus four plus three? \square

17 What is half of 8 plus 2? \square

18 What is half of 12? \square

19 If there are ten cats and eight leave, how many cats are left? \square

20 If three children eat two apples each, how many apples altogether? \square

Number of Correct Answers: _____ out of 20

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Number and Algebra: Operations

Test 4 • Subtraction

Name: _____ Date: _____

Shade the bubble beside the correct answer.

1 $12 - 5 = ?$ ☐ 6 ☐ 7 ☐ 8

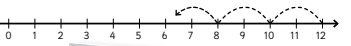
2 $11 - 4 = ?$ ☐ 7 ☐ 5 ☐ 3


3 $9 - 2 = ?$ ☐ 5 ☐ 6 ☐ 7


4 $16 - 6 = ?$ ☐ 6 ☐ 8 ☐ 10


5 $18 - 8 = ?$ ☐ 8 ☐ 10 ☐ 12


Continue the backward skip counting along the number lines.

6 

7 

8 

9 

10 

Write the answers to these problems.

11 Parrot had 13 peanuts and she ate 4 of them. How many peanuts did Parrot have left? \square

12 Possum had twelve peanuts and he threw away six of them. How many peanuts are left? \square

13 Pixie had 20 peanuts and she ate half of them. How many peanuts did Pixie have left? \square

14 Parrot had 18 peanuts and gave five away. How many did she have left? \square

15 Possum took five peanuts away from fifteen. How many peanuts are left? \square

16 Pixie threw away ten of her eleven peanuts. How many did she have left? \square

17 Parrot took 3 peanuts away from 20. How many peanuts are left? \square

18 Possum gave nine peanuts away. He had nineteen to start with. How many left? \square

19 Pixie had four peanuts and on Monday she ate one, on Tuesday she ate another and on Wednesday she ate one more. How many peanuts are left? \square

20 Parrot had 16 peanuts but she ate 6 of them. How many peanuts did Parrot have left? \square

Number of Correct Answers: _____ out of 20

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Assessment Data

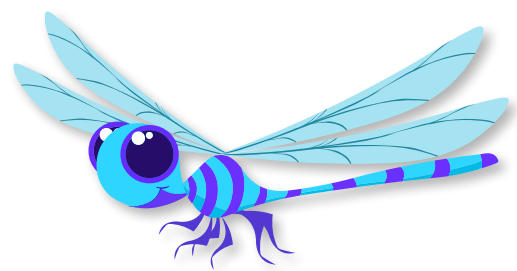
Mathseeds provides teachers with comprehensive reports that track student progress through the program and show growth over time. Results for the end of map quizzes provide valuable data for both teachers and students about concept development, understanding, fluency, and problem-solving skills. Driving Test Reports track student progress through individual standards with comprehensive coverage of Grades K, 1 and 2 standards.

All data is made available via the teacher dashboard and reports can be downloaded, saved or printed. This data can be used to inform small group instruction and reveal areas where students can be extended beyond the grade's standards. The aim is to make assessment data accessible to ensure it informs the teaching and learning process.

Mathseeds Class Ranking Screen

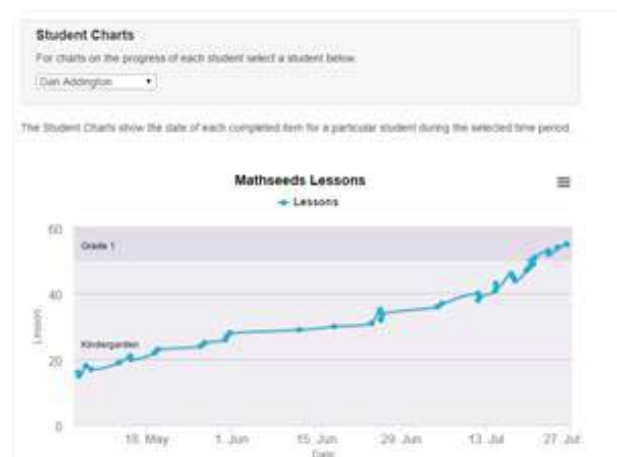


The Class Ranking chart shows the relative performance of students in the class. The graph shows the level of the highest completed lesson of each student.



Mathseeds Class Progress Screen

The Class Progress chart shows the range of student progress in their lessons over the selected time period. Teachers can clearly see how students are performing in relation to grade level expectations and how they compare to their peers.



Mathseeds Student Progress

The Student Charts show the date of each completed event for a particular student during the selected time period. Teachers can clearly see how students are performing in relation to grade level expectations.