



IXL Skill Plan for the TerraNova 3[®] 2nd grade



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www.ixl.com/math/skill-plans/terranova3-grade-2

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Number and Number Relations

Standard

IXL skills

Counting

1. Skip-counting by fives and tens FVF
2. Skip-counting by twos, fives, and tens CBC

Read, Recognize Numbers

Numbers up to 100

1. Writing numbers up to 100 in words - convert words to digits 2FT
2. Writing numbers up to 100 in words - convert digits to words VPG

Numbers up to 1000

3. Writing numbers up to 1,000 in words - convert words to digits JKD
4. Writing numbers up to 1,000 in words - convert digits to words VPQ

Compare, Order

Compare numbers

1. Comparing numbers up to 100 G7F
2. Comparing numbers up to 1,000 XF9

Order numbers

3. Put numbers up to 100 in order LK6
4. Put numbers up to 1,000 in order 3N2

Ordinal Numbers

5. Ordinal numbers up to 10th T6K

Word problems

6. Greatest and least - word problems - up to 100 2F7
7. Greatest and least - word problems - up to 1,000 6QX

Money

Names and values of coins

1. Names and values of common coins 2QM
2. Names and values of all coins W7G

Count money

3. Count money - up to \$1 DGK

4. Count money - up to \$5 3R8

Fractional Part

Identify fractions

1. Identify halves, thirds, and fourths 24W

Make fractions

2. Make halves, thirds, and fourths QD2

3. Make halves, thirds, and fourths in different ways 6SG

Place Value

Models

1. Place value models - tens and ones HQR

2. Place value models - up to hundreds PBX

Place value

3. Identify a digit up to the hundreds place 45U

4. Place value - tens and ones RSH

5. Place value - up to hundreds BDF

Number Line

1. Number lines - up to 100 T6D

2. Number lines - up to 1,000 KFQ

Rounding, Estimation

1. Estimate to the nearest ten VFA

2. Round to the nearest ten HNL

3. Round to the nearest ten or hundred 5CT

Computation and Numerical Estimation

Standard

IXL skills

Computation

Add and subtract within 20

1. Add one-digit numbers 5C6
2. Add three one-digit numbers YCC
3. Subtract a one-digit number from a two-digit number up to 18 HSU
4. Add and subtract numbers up to 20 QQP

Add within 100

5. Add a two-digit and a one-digit number - without regrouping EZ7
6. Add a two-digit and a one-digit number - with regrouping 8BT
7. Add two-digit numbers without regrouping - sums to 100 TX5
8. Add two-digit numbers with regrouping - sums to 100 GLX
9. Add three numbers up to two digits each YTH

Subtract within 100

10. Subtract a one-digit number from a two-digit number - without regrouping L8D
11. Subtract a one-digit number from a two-digit number - with regrouping P85
12. Subtract two two-digit numbers - without regrouping R8C
13. Subtract two two-digit numbers - with regrouping TWE

Add within 1000

14. Add multiples of 10 or 100 RCJ
15. Addition with three-digit numbers ETW

Subtract within 1000

16. Subtract multiples of 10 or 100 VVM
17. Subtract three-digit numbers ZVR

Computation In Context**Addition**

1. Addition word problems - sums to 20 EN6
2. Add three one-digit numbers: word problems VJ9
3. Addition word problems - up to two digits XAT
4. Add three numbers up to two digits each: word problems 52T
5. Addition word problems - up to three digits UV2

Subtraction

6. Subtraction word problems - up to 18 2FD
7. Subtraction word problems - up to two digits UFU
8. Subtraction word problems - up to three digits ZMA

Computation With Money**Exchange money**

1. Equivalent amounts of money - up to \$1 MGA
2. Exchanging money - with pictures VZD

Add and subtract money

3. Add and subtract money - up to \$1 LYC
4. Add and subtract money - up to \$1: word problems N5Y
5. Purchases - do you have enough money - up to \$1 F62
6. Purchases - do you have enough money - up to \$5 W79

Make change

7. Correct amount of change LQ7
8. Making change LYP

Operation Concepts

Standard

IXL skills

Operation Sense

Addition and subtraction

1. Addition sentences: which is true? GMN
2. Subtraction sentences: which is true? UY2
3. Addition and subtraction sentences up to 20: which is true? KP6
4. Which sign (+ or -) makes the number sentence true? K7X

Multiplication and division

5. Count equal groups LHS
6. Divide by counting equal groups MTV

Operation Properties

Fact families

1. Related addition facts YDX
2. Related subtraction facts P6Y
3. Fact families NSN

Complete the addition sentence

4. Complete the addition sentence - sums to 20 MQX
5. Complete the addition sentence - up to two digits CZK

Complete the subtraction sentence

6. Complete the subtraction sentence - up to 18 QS5
7. Complete the subtraction sentence - up to two digits YWC

Represent Operations

Addition

1. Addition with pictures - sums to 20 PM8
2. Write addition sentences to describe pictures - sums to 20 L2M
3. Addition sentences using number lines - sums up to 20 FXF
4. Write addition sentences to describe pictures XJ5

Repeated addition

5. Identify repeated addition in arrays: sums to 10 F7E
6. Write addition sentences for arrays: sums to 10 Z7N
7. Identify repeated addition in arrays: sums to 25 EUS
8. Write addition sentences for arrays: sums to 25 W8T

Subtraction

9. Subtraction with pictures XUG
10. Write subtraction sentences to describe pictures - up to 18 F8W
11. Subtraction sentences using number lines - up to 20 GUZ
12. Write subtraction sentences to describe pictures - up to two digits UBF

Multiplication

13. Identify multiplication sentences for equal groups S7X
14. Write multiplication sentences for equal groups A86
15. Relate addition and multiplication for equal groups NFF

Division

16. Write division sentences for groups VGQ
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Measurement

Standard	IXL skills
Appropriate Tool	1. Choose the appropriate measuring tool 53M
Time	<p>Match clocks and times</p> <ol style="list-style-type: none"> Match digital clocks and times 36N Match analog clocks and times D9K Match analog and digital clocks HKL <p>Read and write times</p> <ol style="list-style-type: none"> Read clocks and write times: hour and half hour AQW Read clocks and write times K7F Time words: o'clock, half, quarter 5TA <p>A.M. or P.M.</p> <ol style="list-style-type: none"> A.M. or P.M. EJV
Calendar	<ol style="list-style-type: none"> Read a calendar I ZXK Read a calendar II AWC
Temperature	<ol style="list-style-type: none"> Read a thermometer X7B
Perimeter	<ol style="list-style-type: none"> Perimeter NP9 Perimeter: word problems EL7
Area	<ol style="list-style-type: none"> Tile a rectangle with squares 2VD Area 73H Select figures with a given area KLV Create figures with a given area XQT Create rectangles with a given area G6Y
Mass, Weight	<ol style="list-style-type: none"> Which customary unit of weight is appropriate? YJ6 Which metric unit of weight is appropriate? 7WD

Geometry and Spatial Sense

Standard	IXL skills
Plane Figure	Identify two-dimensional shapes <ol style="list-style-type: none">1. Name the two-dimensional shape 2FK2. Select two-dimensional shapes DWL Describe two-dimensional shapes <ol style="list-style-type: none">3. Count sides and vertices EAQ4. Compare sides and vertices G9N5. Equal sides D6K
Congruence, Similarity	<ol style="list-style-type: none">1. Identify congruent shapes XCM
Sort/Group	<ol style="list-style-type: none">1. Count shapes in a Venn diagram PBT2. Sort shapes into a Venn diagram G7T
Visualization, Spatial Reasoning	<ol style="list-style-type: none">1. Equal parts H5R
Use Geometric Models To Solve Problems	<ol style="list-style-type: none">1. Perimeter: word problems EL7

Data Analysis, Statistics, and Probability

Standard	IXL skills
Read Pictograph	
Read Bar Graph	1. Which bar graph is correct? BMG
Interpret Data Display	1. Interpret bar graphs I RPD 2. Interpret pictographs I QDT 3. Interpret pictographs II YL6
Draw Conclusions From Data	1. Interpret bar graphs II 8CH
Probability	1. More, less, and equally likely P9R 2. Certain, probable, unlikely, and impossible SQX

Patterns, Functions, Algebra

Standard	IXL skills
Missing Element	1. Skip-counting sequences <small>MV8</small>
Number Pattern	1. Count forward and backward by fives, tens, and hundreds <small>R5A</small> 2. Count forward and backward by twos, fives, tens, and hundreds <small>HNG</small>
Model Problem Situation	1. Skip-counting stories <small>SSL</small>

Problem Solving and Reasoning

Standard	IXL skills
Identify Missing/Extra Information	
Develop, Explain Strategy	1. Two-step addition and subtraction word problems - up to 100 7P8
Evaluate Solution	1. Least number of coins QAP
Deductive/Inductive Reasoning	1. Guess the number TKV 2. Sort shapes into a Venn diagram G7T
Spatial Reasoning	
Model Problem Situation, Solution	<p>Addition</p> <ol style="list-style-type: none"> Addition sentences for word problems - sums to 20 VSF Write the subtraction sentence - up to two digits ZQH Write the addition sentence - up to three digits PQT <p>Subtraction</p> <ol style="list-style-type: none"> Subtraction sentences for word problems - up to 18 AZ8 Write the addition sentence - up to two digits 5FM Write the subtraction sentence - up to three digits 5B3 <p>Mixed operations</p> <ol style="list-style-type: none"> Write addition and subtraction sentences QPH

Communication

Standard	IXL skills
Model Math Situations	<ol style="list-style-type: none"><li data-bbox="839 382 1537 451">1. Addition and subtraction word problems - up to 20 <small>75R</small><li data-bbox="839 466 1537 533">2. Addition and subtraction word problems - up to 100 <small>MEP</small>