



IXL Skill Plan for the TerraNova 3[®] 5th grade



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Number and Number Relations

Standard	IXL skills
Compare, Order	<p>Whole numbers</p> <ol style="list-style-type: none"> 1. Compare numbers up to billions CLB <p>Decimals</p> <ol style="list-style-type: none"> 2. Compare decimal numbers NSG 3. Put decimal numbers in order YUX <p>Fractions</p> <ol style="list-style-type: none"> 4. Compare fractions and mixed numbers U8J 5. Put fractions in order T76 <p>Decimals and fractions</p> <ol style="list-style-type: none"> 6. Compare decimals and fractions ZEH 7. Put a mix of decimals and fractions in order BKL 8. Put a mix of decimals, fractions, and mixed numbers in order SR7
Fractional Part	<p>Fractions</p> <ol style="list-style-type: none"> 1. Fractions review PCF 2. Fractions of a whole: word problems 2VP 3. Fractions of a group: word problems MR2 <p>Decimals</p> <ol style="list-style-type: none"> 4. What decimal number is illustrated? CTP
Ratio, Proportion	
Percent	<ol style="list-style-type: none"> 1. What percentage is illustrated? DSJ
Number Line	<ol style="list-style-type: none"> 1. Decimal number lines DQ2
Rounding, Estimation	<ol style="list-style-type: none"> 1. Rounding PVU 2. Round decimals MPB 3. Round mixed numbers RYP

Factors, Multiples, Divisibility**Divisibility**

1. Divisibility rules QWD
2. Divisibility rules: word problems LKU

Factors and multiples

3. Find all the factor pairs of a number 5BL
4. Greatest common factor 4C2
5. Least common multiple BMQ

Prime, Composite Numbers

1. Prime and composite numbers 8PL
 2. Prime factorization YL2
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Computation and Numerical Estimation

Standard

IXL skills

Computation

Add and subtract whole numbers

1. Add and subtract whole numbers up to billions 6J2
2. Multiply by 1-digit numbers 7H4

Multiply whole numbers

3. Multiply 2-digit numbers by 2-digit numbers LLJ
4. Multiply 2-digit numbers by 3-digit numbers JHB
5. Multiply 2-digit numbers by larger numbers 9VQ

Divide whole numbers

6. Division facts to 12 ZWQ
7. Divide multi-digit numbers by 1-digit numbers XHZ
8. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA
9. Divide 4-digit numbers by 2-digit numbers 35K

Add and subtract decimals

10. Add and subtract decimal numbers 7VJ
11. Add and subtract fractions with like denominators FXW

Add and subtract fractions

12. Add fractions with unlike denominators D9N
13. Subtract fractions with unlike denominators VSP
14. Add mixed numbers with unlike denominators FHD
15. Subtract mixed numbers with unlike denominators FAA

Computation In Context

Add and subtract whole numbers

1. Add and subtract whole numbers: word problems JYY

Multiply whole numbers

2. Multiply by 2-digit numbers: word problems J95

Divide whole numbers

3. Division facts to 12: word problems 2SA
4. Divide multi-digit numbers by 1-digit numbers: word problems 5DE
5. Divide by 1-digit numbers: interpret remainders 72W
6. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW
7. Divide 4-digit numbers by 2-digit numbers: word problems J8L

Add and subtract decimals

8. Add and subtract decimals: word problems 35U

Add and subtract fractions

9. Add and subtract fractions with like denominators: word problems 7YQ
10. Add and subtract fractions with unlike denominators: word problems TCD
11. Add and subtract mixed numbers: word problems 6BH
12. Add and subtract fractions in recipes W9K

Estimation**Whole numbers**

1. Estimate sums and differences of whole numbers 9RM
2. Estimate sums and differences: word problems KTA
3. Estimate products TKD
4. Estimate products: word problems 9JW
5. Estimate quotients V8H
6. Estimate quotients: word problems HD6

Decimals

7. Estimate sums and differences of decimals using rounding YGG
8. Estimate sums and differences of decimals using benchmarks CHE

Fractions

9. Estimate sums and differences of fractions using benchmarks 9JR

10. Estimate sums and differences of mixed numbers HJJ

Computation With Money

1. Add and subtract money: word problems DLC
 2. Add and subtract money: multi-step word problems MCG
 3. Price lists WUU
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Recognize When To Estimate

Operation Concepts

Standard	IXL skills
Model Problem Situation	<ol style="list-style-type: none">1. Write numerical expressions for word problems NF5
Order of Operations	<ol style="list-style-type: none">1. Evaluate numerical expressions Z5N2. Evaluate numerical expressions with parentheses HGW
Permutations, Combinations	<ol style="list-style-type: none">1. Combinations XNM
Operation Properties	<ol style="list-style-type: none">1. Properties of addition LFE2. Add using properties RZR3. Properties of multiplication LUE4. Multiply using properties 6PN
Represent Operations	<ol style="list-style-type: none">1. Add and subtract fractions with like denominators using number lines SUT2. Add fractions with unlike denominators using models 2BS3. Subtract fractions with unlike denominators using models QA6

Measurement

Standard	IXL skills
Appropriate Unit	<ol style="list-style-type: none">1. Choose the appropriate customary unit of measure UDF2. Choose the appropriate metric unit of measure S9U
Estimate	
Time	<ol style="list-style-type: none">1. Elapsed time N8A2. Find start and end times: word problems NX7
Perimeter	<ol style="list-style-type: none">1. Perimeter with whole number side lengths UJ22. Perimeter of figures on grids ZKD
Mass, Weight	<ol style="list-style-type: none">1. Compare and convert customary units of weight XST2. Compare and convert metric units of weight TM9
Circumference	
Scale Drawing, Map, Model	
Convert Measurement Units	<ol style="list-style-type: none">1. Conversion tables - customary units 7HU2. Conversion tables - metric units 7QS3. Convert time units CXF

Geometry and Spatial Sense

Standard	IXL skills
Triangles	<ol style="list-style-type: none">1. Acute, obtuse, and right triangles N772. Scalene, isosceles, and equilateral triangles R943. Classify triangles C64
Coordinate Geometry	<ol style="list-style-type: none">1. Describe the coordinate plane PF82. Objects on a coordinate plane NTR3. Graph points on a coordinate plane AST
Congruence, Similarity	<ol style="list-style-type: none">1. Identify congruent and similar figures D6P
Transformations	<ol style="list-style-type: none">1. Reflection, rotation, and translation 2B3
Visualization, Spatial Reasoning	<ol style="list-style-type: none">1. Follow directions on a coordinate plane XQR

Data Analysis, Statistics, and Probability

Standard	IXL skills
Read Table, Chart, Diagram	<ol style="list-style-type: none"> 1. Read a table K5P
Interpret Data Display	<ol style="list-style-type: none"> 1. Interpret bar graphs YW8 2. Interpret frequency charts: one-step problems UEK
Complete/Construct Data Display	<ol style="list-style-type: none"> 1. Create frequency charts V7F
Make Inferences From Data	
Draw Conclusions From Data	
Statistics	<p>Mean, median, mode, and range</p> <ol style="list-style-type: none"> 1. Find the mode LNT 2. Find the mean AAP 3. Find the median GDA 4. Find the range 2T8 <p>Interpret charts</p> <ol style="list-style-type: none"> 5. Interpret charts and graphs to find the mode AMK 6. Interpret charts and graphs to find the mean VBL 7. Interpret charts and graphs to find the median XWN 8. Interpret charts and graphs to find the range UNM
Probability	<ol style="list-style-type: none"> 1. Understanding probability RKS 2. Find the probability C79 3. Make predictions BNZ
Use Data To Solve Problems	<ol style="list-style-type: none"> 1. Interpret bar graphs: multi-step problems DGY 2. Interpret frequency charts: multi-step problems NJ7

Patterns, Functions, Algebra

Standard	IXL skills
Variable	<ol style="list-style-type: none">1. Write variable expressions UZZ2. Write variable expressions: word problems E2M3. Evaluate variable expressions CTJ
Rules	<ol style="list-style-type: none">1. Use a rule to complete a number sequence RPP2. Compare patterns XPM3. Use a rule to complete a table and a graph N9B
Model Problem Situation	<ol style="list-style-type: none">1. Write variable equations: word problems TVB2. Analyze graphed relationships SMY
Use Algebra To Solve Problems	<ol style="list-style-type: none">1. Solve equations with whole numbers 5NW

Problem Solving and Reasoning

Standard	IXL skills
Identify Missing/Extra Information	1. Word problems with extra or missing information 9KF
Formulate Problem	
Solve Non-Routine Problem	1. Make the largest possible quotient QMF
Evaluate Solution	1. Identify mistakes involving the order of operations JLJ
Generalize Solution	1. Even or odd: arithmetic rules L8Y
Deductive/Inductive Reasoning	1. Find the order G2C 2. Use Venn diagrams to solve problems 7PK
Spatial Reasoning	1. Coordinate planes as maps ZBD
Proportional Reasoning	1. Unit prices C5N
Model Problem Situation, Solution	<p>One-step problems</p> <p>1. Add, subtract, multiply, and divide whole numbers: word problems SNZ</p> <p>Multi-step problems</p> <p>2. Multi-step word problems Z76</p> <p>3. Multi-step word problems involving remainders XGE</p>

Communication

Standard

Model Math Situations

IXL skills

Fractions and decimals

1. Compare decimals using grids QTG
2. Compare decimals on number lines CUF
3. Graph and compare fractions on number lines RGV

Operations

4. Write numerical expressions: one operation SCJ
5. Write numerical expressions: two operations 8ME

Explain Thinking

Explain Solution Process
