



IXL Skill Plan for the TerraNova 3[®] 3rd grade



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Number and Number Relations

Standard	IXL skills
Read, Recognize Numbers	<ol style="list-style-type: none">1. Write numbers in words 2GW
Compare, Order	<p>Compare and order whole numbers</p> <ol style="list-style-type: none">1. Compare numbers 56H2. Which number is greatest/least? UG23. Order numbers X92 <p>Compare fractions</p> <ol style="list-style-type: none">4. Compare fractions using models MJ25. Compare fractions using number lines 38T6. Graph and compare fractions with like denominators on number lines 63U7. Graph and compare fractions with like numerators on number lines ZPD8. Compare fractions 78D <p>Order fractions</p> <ol style="list-style-type: none">9. Graph and order fractions on number lines T7E10. Order fractions with like denominators HYZ11. Order fractions with like numerators PCW12. Order fractions GBA
Fractional Part	<p>Understand fractions</p> <ol style="list-style-type: none">1. Understand fractions: fraction bars 6JL2. Understand fractions: area models RTW <p>Show fractions</p> <ol style="list-style-type: none">3. Show fractions: fraction bars ZPW4. Show fractions: area models NLE
Place Value	<ol style="list-style-type: none">1. Place value names up to thousands GEV2. Place value names up to hundred thousands A8F3. Value of a digit DHS

Expanded Notation

1. Convert to/from a number KSN
 2. Convert from expanded form 8MP
 3. Convert between standard and expanded form 2GS
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Number Line

1. Fractions of number lines J8M
 2. Identify fractions on number lines AWH
 3. Graph fractions on number lines 7QM
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Sets, Models

1. Place value models up to thousands DDS
 2. Match fractions to models YHL
 3. Match mixed numbers to models UWH
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Computation and Numerical Estimation

Standard

IXL skills

Computation

Addition and subtraction

1. Add two numbers up to three digits E83
2. Add two numbers up to four digits P2Q
3. Subtract numbers up to three digits EHT
4. Subtract numbers with four or more digits Y57

Multiplication

5. Multiplication tables up to 12 TK7
6. Multiplication facts up to 12: find the missing factor WB8
7. Multiply one-digit numbers by two-digit numbers 9PM
8. Multiply one-digit numbers by three-digit numbers FA7

Division

9. Division facts up to 12 TA7
10. Division facts up to 12: find the missing number MFD
11. Divide three-digit numbers SMS
12. Divide larger numbers 42Z

Mixed operations

13. Addition, subtraction, multiplication, and division facts 7RF
14. Add, subtract, multiply, and divide AZH

Computation In Context

Addition and subtraction

1. Add two numbers up to three digits: word problems QU2
2. Add two numbers up to four digits: word problems CNN
3. Subtract numbers up to three digits: word problems K88

Multiplication

4. Multiplication word problems 9TA

5. Multiplication word problems: find the missing factor F6C
6. Compare numbers using multiplication: word problems Z46
7. Multiply one-digit numbers by two-digit numbers: word problems X5D
8. Multiply one-digit numbers by three-digit numbers: word problems 9GD

Division

9. Division word problems ECS
10. Divide three-digit numbers: word problems 2AT
11. Divide larger numbers: word problems MPK

Estimation

1. Estimate sums MBN
2. Estimate differences QDF
3. Estimate sums and differences: word problems BU8

Computation With Money

1. Purchases - do you have enough money - up to \$10 T7L
 2. Correct amount of change 8KD
 3. Making change TF7
 4. Add money amounts - word problems BK6
 5. Price lists 3Z6
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Operation Concepts

Standard	IXL skills
Model Problem Situation	<ol style="list-style-type: none">1. Addition and subtraction word problems XSH2. Multiplication and division word problems 85K
Operation Properties	<p>Properties of addition</p> <ol style="list-style-type: none">1. Properties of addition NY22. Complete the equation using properties of addition CGS3. Add using properties KYA <p>Properties of multiplication</p> <ol style="list-style-type: none">4. Properties of multiplication MPE5. Distributive property: find the missing factor 7VP6. Multiply using the distributive property 6W77. Solve using properties of multiplication YPF
Represent Operations	<p>Multiplication</p> <ol style="list-style-type: none">1. Identify multiplication expressions for equal groups 9AE2. Identify multiplication expressions for arrays HZL3. Multiply one-digit numbers by two-digit numbers using area models I V9Q4. Multiply one-digit numbers by three-digit numbers using area models I KLZ <p>Division</p> <ol style="list-style-type: none">5. Write division sentences for groups FSX6. Write division sentences for arrays 8RW

Measurement

Standard	IXL skills
Time	<p>Clocks and times</p> <ol style="list-style-type: none"> 1. Read clocks and write times 5ZQ 2. A.M. or P.M. MUC <p>Elapsed time</p> <ol style="list-style-type: none"> 3. Elapsed time: find the end time U7B 4. Elapsed time word problems: find the elapsed time V9D 5. Elapsed time word problems: find the end time 5VC
Perimeter	<ol style="list-style-type: none"> 1. Perimeter of rectangles ZJT 2. Perimeter of rectilinear shapes 65Z 3. Perimeter of polygons LLY 4. Perimeter: word problems CLD
Area	<p>Figures made of unit squares</p> <ol style="list-style-type: none"> 1. Find the area of figures made of unit squares FLQ <p>Rectangles</p> <ol style="list-style-type: none"> 2. Multiply to find the area of a rectangle made of unit squares S7G 3. Find the area of rectangles and squares 8KJ 4. Find the missing side length of a rectangle X66 5. Find the area of rectangles: word problems 5HA
Mass, Weight	<ol style="list-style-type: none"> 1. Which customary unit of weight is appropriate? GK8 2. Which metric unit of weight is appropriate? PTF
Use Ruler	<ol style="list-style-type: none"> 1. Measure using an inch ruler LC2 2. Measure using a centimeter ruler 7WA

Geometry and Spatial Sense

Standard	IXL skills
Plane Figure	<ol style="list-style-type: none">1. Identify two-dimensional shapes JBT2. Count and compare sides and vertices GWA3. Open and closed shapes 9PS4. Is it a polygon? C2P
Solid Figure	<ol style="list-style-type: none">1. Identify three-dimensional shapes BDP2. Count vertices, edges, and faces ZBU
Symmetry	<ol style="list-style-type: none">1. Symmetry STQ
Transformations	<ol style="list-style-type: none">1. Reflection, rotation, and translation QUU
Visualization, Spatial Reasoning	<ol style="list-style-type: none">1. Identify faces of three-dimensional shapes S8P2. Shapes of everyday objects I GUF3. Shapes of everyday objects II 2LB
Combine/Subdivide Shapes	<ol style="list-style-type: none">1. Compose two-dimensional shapes QPK2. Find the areas of complex figures by dividing them into rectangles DVB

Data Analysis, Statistics, and Probability

Standard	IXL skills
Read Pictograph	1. Interpret pictographs Y5D
Read Bar Graph	1. Interpret bar graphs V54
Interpret Data Display	1. Interpret pictographs Y5D 2. Interpret bar graphs V54
Complete/Construct Data Display	1. Create pictographs AVG 2. Create bar graphs RPF
Probability	1. Certain, probable, unlikely, and impossible EDK
Use Data To Solve Problems	1. Use bar graphs to solve problems BCJ

Patterns, Functions, Algebra

Standard	IXL skills
Missing Element	<ol style="list-style-type: none"> 1. Number sequences 7Y5
Number Pattern	<ol style="list-style-type: none"> 1. Skip-counting LQM 2. Skip-counting puzzles 78C
Function	<ol style="list-style-type: none"> 1. Addition input/output tables: up to three digits MUE 2. Subtraction input/output tables: up to three digits J9S 3. Multiplication input/output tables 8CM 4. Division input/output tables RK9
Expression	<ol style="list-style-type: none"> 1. Write numerical expressions: one operation 2NK
Rules	<ol style="list-style-type: none"> 1. Multiplication input/output tables: find the rule D5U 2. Division input/output tables: find the rule 4Z8
Inequality	<ol style="list-style-type: none"> 1. Comparing: with addition and subtraction 5ZU 2. Multi-step inequalities C6M 3. Solve inequalities using estimation NMD

Problem Solving and Reasoning

Standard	IXL skills
Identify Missing/Extra Information	
Develop, Explain Strategy	<ol style="list-style-type: none">1. Two-step addition and subtraction word problems CBA2. Two-step multiplication and division word problems 8FP3. Two-step mixed operation word problems SRL
Deductive/Inductive Reasoning	<ol style="list-style-type: none">1. Guess the number KEJ2. Largest/smallest number possible JC63. Find the order KUF4. Age puzzles YWU5. Find two numbers based on sum, difference, product, and quotient DAV
Model Problem Situation, Solution	<ol style="list-style-type: none">1. Add and subtract data from tables HX22. Addition, subtraction, multiplication, and division word problems X8W

Communication

Standard

IXL skills

Model Math Situations

Fractions

1. Unit fractions: word problems HM7
2. Fractions of a whole: word problems BV7
3. Fractions of a group: word problems Z65

Operations

4. Comparison word problems: addition or multiplication? A52

Relate Models to Ideas

Fractions

1. Unit fractions: modeling word problems UV8
2. Fractions of a whole: modeling word problems 9PU

Multiplication models

3. Write multiplication sentences for equal groups V98
4. Write multiplication sentences for arrays 5FZ
5. Write multiplication sentences for number lines NTV
6. Multiply one-digit numbers by two-digit numbers using area models II QXM
7. Multiply one-digit numbers by three-digit numbers using area models II HQP

Related operations

8. Relate addition and multiplication for equal groups GGC
9. Relate multiplication and division for groups FTU
10. Relate multiplication and division for arrays XSK

Explain Thinking