

Table of Contents

Critical Area I: Number and Operations

Page

Critical Area At A Glance	IA
Digital Resources	IC
Vocabulary Reader: Fall Festival!	I-4
Real World Project	8B

Chapter 1 Represent, Count, and Write Numbers 0 to 5

Domains: Counting and Cardinality K.CC
Operations and Algebraic Thinking K.OA

Connecting Domains and Clusters:
* This chapter also includes the following standard:
K.CC.B.5

 **MATHEMATICAL PRACTICES**

MP1 Make sense of problems and persevere in solving them.
MP2 Reason abstractly and quantitatively.
MP3 Construct viable arguments and critique the reasoning of others.
MP4 Model with mathematics.

MP5 Use appropriate tools strategically.
MP6 Attend to precision.
MP7 Look for and make use of structure.
MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	9A
Teaching for Depth	9E
Daily Classroom Management	9F
Strategies for English Language Learners	9G
Developing Math Language	9H
Review Prerequisite Skills	9I
Common Core Focus and Coherence: Learning Progressions and Content Standards	9J
Introduce the Chapter	9
Show What You Know	10
Vocabulary Builder	11
Game	12

Lessons

Common Core State Standards

Page

I.1 Hands On • Model and Count 1 and 2	K.CC.B.4a	13A
I.2 Count and Write 1 and 2	K.CC.A.3	19A
I.3 Hands On • Model and Count 3 and 4	K.CC.B.4a	25A
I.4 Count and Write 3 and 4	K.CC.A.3	31A
Mid-Chapter Checkpoint		34
I.5 Hands On • Model and Count to 5	K.CC.B.4a	37A
I.6 Count and Write to 5	K.CC.A.3	43A
I.7 Hands On: Algebra • Ways to Make 5	K.CC.B.4b, K.OA.A.3	49A
I.8 Hands On • Count and Order to 5	K.CC.B.4c	55A
I.9 Problem Solving • Understand 0	K.CC.A.3	61A
I.10 Identify and Write 0	K.CC.A.3	67A
Chapter 1 Review/Test		73-74
Chapter 1 Test		76A

Table of Contents

Chapter 2 Compare Numbers to 5

Domain:

Counting and Cardinality K.CC



MATHEMATICAL PRACTICES

- MP1 Make sense of problems and persevere in solving them.
- MP2 Reason abstractly and quantitatively.
- MP3 Construct viable arguments and critique the reasoning of others.
- MP4 Model with mathematics.

Connecting Domains and Clusters:

* This chapter also includes the following standards:
K.CC.B.4b, K.CC.C.7

- MP5 Use appropriate tools strategically.
- MP6 Attend to precision.
- MP7 Look for and make use of structure.
- MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	77A
Teaching for Depth	77C
Daily Classroom Management	77D
Strategies for English Language Learners	77E
Developing Math Language	77F
Review Prerequisite Skills	77G
Common Core Focus and Coherence: Learning Progressions and Content Standards	77H
Introduce the Chapter	77
Show What You Know	78
Vocabulary Builder	79
Game	80

Lessons

Common Core State Standards

Page

2.1 Hands On • Same Number	K.CC.C.6	81A
2.2 Hands On • Greater Than	K.CC.C.6	87A
2.3 Hands On • Less Than	K.CC.C.6	93A
Mid-Chapter Checkpoint		96
2.4 Problem Solving • Compare by Matching Sets to 5	K.CC.C.6	99A
2.5 Compare by Counting Sets to 5	K.CC.C.6	105A
Chapter 2 Review/Test		III–II2
Chapter 2 Test		II4A



Keep Ducks

Table of Contents

Chapter 3 Represent, Count, and Write Numbers 6 to 9

Domain:

Counting and Cardinality K.CC

Connecting Domains and Clusters:

* This chapter also includes the following standards:
K.CC.B.4a, K.CC.B.4b, K.CC.B.4c

Common Core MATHEMATICAL PRACTICES

- MP1 Make sense of problems and persevere in solving them.
- MP2 Reason abstractly and quantitatively.
- MP3 Construct viable arguments and critique the reasoning of others.
- MP4 Model with mathematics.

- MP5 Use appropriate tools strategically.
- MP6 Attend to precision.
- MP7 Look for and make use of structure.
- MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	115A
Teaching for Depth	115E
Daily Classroom Management	115F
Strategies for English Language Learners	115G
Developing Math Language	115H
Review Prerequisite Skills	115I
Common Core Focus and Coherence: Learning Progressions and Content Standards	115J
Introduce the Chapter	115
Show What You Know	116
Vocabulary Builder	117
Game	118

Lessons

Common Core State Standards

Page

3.1 Hands On • Model and Count 6	K.CC.B.5	119A
3.2 Count and Write to 6	K.CC.A.3	125A
3.3 Hands On • Model and Count 7	K.CC.B.5	131A
3.4 Count and Write to 7	K.CC.A.3	137A
Mid-Chapter Checkpoint		140
3.5 Hands On • Model and Count 8	K.CC.B.5	143A
3.6 Count and Write to 8	K.CC.A.3	149A
3.7 Hands On • Model and Count 9	K.CC.B.5	155A
3.8 Count and Write to 9	K.CC.A.3	161A
3.9 Problem Solving • Numbers to 9	K.CC.C.6, K.CC.C.7	167A
Chapter 3 Review/Test		173–174
Chapter 3 Test		176A

Keep Ducks

Table of Contents

Chapter 4 Represent and Compare Numbers to 10

Domains:

Counting and Cardinality K.CC
Operations and Algebraic Thinking K.OA

Connecting Domains and Clusters:

* This chapter also includes the following standards:
K.CC.B.4a, K.CC.B.4b, K.CC.B.4c



MATHEMATICAL PRACTICES

MP1 Make sense of problems and persevere in solving them.
MP2 Reason abstractly and quantitatively.
MP3 Construct viable arguments and critique the reasoning of others.
MP4 Model with mathematics.

MP5 Use appropriate tools strategically.
MP6 Attend to precision.
MP7 Look for and make use of structure.
MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	177A
Teaching for Depth	177E
Daily Classroom Management	177F
Strategies for English Language Learners	177G
Developing Math Language	177H
Review Prerequisite Skills	177I
Common Core Focus and Coherence: Learning Progressions and Content Standards	177J
Introduce the Chapter	177
Show What You Know	178
Vocabulary Builder	179
Game	180

Lessons

Common Core State Standards

Page

4.1 Hands On: • Model and Count 10	K.CC.B.5, K.OA.A.3	181A
4.2 Count and Write to 10	K.CC.A.3	187A
4.3 Hands On: Algebra • Ways to Make 10	K.OA.A.4	193A
4.4 Count and Order to 10	K.CC.A.2	199A
Mid-Chapter Checkpoint		202
4.5 Problem Solving • Compare by Matching Sets to 10	K.CC.C.6	205A
4.6 Compare by Counting Sets to 10	K.CC.C.6	211A
4.7 Compare Two Numbers	K.CC.C.7	217A
Chapter 4 Review/Test		223–224
Chapter 4 Test		226A

Keep Ducks

Table of Contents

Chapter 5 Addition

Domain:

Operations and Algebraic Thinking K.OA



MATHEMATICAL PRACTICES

MP1 Make sense of problems and persevere in solving them.

MP2 Reason abstractly and quantitatively.

MP3 Construct viable arguments and critique the reasoning of others.

MP4 Model with mathematics.

MP5 Use appropriate tools strategically.

MP6 Attend to precision.

MP7 Look for and make use of structure.

MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	227A
Teaching for Depth	227E
Daily Classroom Management	227F
Strategies for English Language Learners	227G
Developing Math Language	227H
Review Prerequisite Skills	227I
Common Core Focus and Coherence: Learning Progressions and Content Standards	227J
Introduce the Chapter	227
Show What You Know	228
Vocabulary Builder	229
Game	230

Lessons

Common Core State Standards

Page

5.1 Addition: Add To	K.OA.A.1	231A
5.2 Hands On • Addition: Put Together	K.OA.A.1	237A
5.3 Problem Solving • Act Out Addition Problems	K.OA.A.1	243A
5.4 Hands On: Algebra • Model and Draw Addition Problems	K.OA.A.5	249A
Mid-Chapter Checkpoint		252
5.5 Algebra • Write Addition Sentences for 10	K.OA.A.4	255A
5.6 Algebra • Write Addition Sentences	K.OA.A.5	261A
5.7 Algebra • Write More Addition Sentences	K.OA.A.2	267A
5.8 Hands On: Algebra • Number Pairs to 5	K.OA.A.3	273A
5.9 Hands On: Algebra • Number Pairs for 6 and 7	K.OA.A.3	279A
5.10 Hands On: Algebra • Number Pairs for 8	K.OA.A.3	285A
5.11 Hands On: Algebra • Number Pairs for 9	K.OA.A.3	291A
5.12 Hands On: Algebra • Number Pairs for 10	K.OA.A.3	297A
Chapter 5 Review/Test		303–304
Chapter 5 Test		306A

Keep Ducks

Table of Contents

Chapter 6 Subtraction

Domain:

Operations and Algebraic Thinking K.OA



MATHEMATICAL PRACTICES

MP1 Make sense of problems and persevere in solving them.

MP2 Reason abstractly and quantitatively.

MP3 Construct viable arguments and critique the reasoning of others.

MP4 Model with mathematics.

MP5 Use appropriate tools strategically.

MP6 Attend to precision.

MP7 Look for and make use of structure.

MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	307A
Teaching for Depth	307E
Daily Classroom Management	307F
Strategies for English Language Learners	307G
Developing Math Language	307H
Review Prerequisite Skills	307I
Common Core Focus and Coherence: Learning Progressions and Content Standards	307J
Introduce the Chapter	307
Show What You Know	308
Vocabulary Builder	309
Game	310

Lessons

Common Core State Standard

Page

6.1 Subtraction: Take From	K.OA.A.1	311A
6.2 Hands On • Subtraction: Take Apart	K.OA.A.1	317A
6.3 Problem Solving • Act Out Subtraction Problems	K.OA.A.1	323A
6.4 Hands On: Algebra • Model and Draw Subtraction Problems	K.OA.A.5	329A
Mid-Chapter Checkpoint		332
6.5 Algebra • Write Subtraction Sentences	K.OA.A.5	335A
6.6 Algebra • Write More Subtraction Sentences	K.OA.A.2	341A
6.7 Hands On: Algebra • Addition and Subtraction	K.OA.A.2	347A
Chapter 6 Review/Test		353–354
Chapter 6 Test		356A

Step
Ducks

Table of Contents

Chapter 7 Represent, Count, and Write 11 to 19

Domains:

Counting and Cardinality K.CC
 Number and Operations in Base Ten K.NBT

Connecting Domains and Clusters:

* This chapter also includes the following standards:
 K.CC.B.4b, K.CC.B.4c, K.CC.B.5

MATHEMATICAL PRACTICES

MP1 Make sense of problems and persevere in solving them.
 MP2 Reason abstractly and quantitatively.
 MP3 Construct viable arguments and critique the reasoning of others.
 MP4 Model with mathematics.

MP5 Use appropriate tools strategically.
 MP6 Attend to precision.
 MP7 Look for and make use of structure.
 MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	357A
Teaching for Depth	357E
Daily Classroom Management	357F
Strategies for English Language Learners	357G
Developing Math Language	357H
Review Prerequisite Skills	357I
Common Core Focus and Coherence: Learning Progressions and Content Standards	357J
Introduce the Chapter	357
Show What You Know	358
Vocabulary Builder	359
Game	360

Lessons

Common Core State Standards

Page

7.1 Hands On • Model and Count 11 and 12	K.NBT.A.1	361A
7.2 Count and Write 11 and 12	K.NBT.A.1	367A
7.3 Hands On • Model and Count 13 and 14	K.NBT.A.1	373A
7.4 Count and Write 13 and 14	K.NBT.A.1	379A
7.5 Hands On • Model, Count, and Write 15	K.NBT.A.1	385A
7.6 Problem Solving • Use Numbers to 15	K.CC.A.3	391A
Mid-Chapter Checkpoint		394
7.7 Hands On • Model and Count 16 and 17	K.NBT.A.1	397A
7.8 Count and Write 16 and 17	K.NBT.A.1	403A
7.9 Hands On • Model and Count 18 and 19	K.NBT.A.1	409A
7.10 Count and Write 18 and 19	K.NBT.A.1	415A
Chapter 7 Review/Test		421–422
Chapter 7 Test		424A

Keep Ducks

Table of Contents

Chapter 8 Represent, Count, and Write 20 and Beyond

Domain:

Counting and Cardinality K.CC

Common Core MATHEMATICAL PRACTICES

- MP1 Make sense of problems and persevere in solving them.
- MP2 Reason abstractly and quantitatively.
- MP3 Construct viable arguments and critique the reasoning of others.
- MP4 Model with mathematics.

Connecting Domains and Clusters:

* This chapter also includes the following standards:
K.CC.B.4a, K.CC.B.4b, K.CC.B.4c

- MP5 Use appropriate tools strategically.
- MP6 Attend to precision.
- MP7 Look for and make use of structure.
- MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	425A
Teaching for Depth	425E
Daily Classroom Management	425F
Strategies for English Language Learners	425G
Developing Math Language	425H
Review Prerequisite Skills	425I
Common Core Focus and Coherence: Learning Progressions and Content Standards	425J
Introduce the Chapter	425
Show What You Know	426
Vocabulary Builder	427
Game	428

Lessons

Common Core State Standards

Page

8.1 Hands On • Model and Count 20	K.CC.B.5	429A
8.2 Count and Write to 20	K.CC.A.3	435A
8.3 Count and Order to 20	K.CC.A.2	441A
8.4 Problem Solving • Compare Numbers to 20	K.CC.C.6	447A
Mid-Chapter Checkpoint		450
8.5 Count to 50 by Ones	K.CC.A.1, K.CC.A.2	453A
8.6 Count to 100 by Ones	K.CC.A.1, K.CC.C.7	459A
8.7 Count to 100 by Tens	K.CC.A.1	465A
8.8 Count by Tens	K.CC.A.1	471A
Chapter 8 Review/Test		477–478
Chapter 8 Test		480A

ep
Ducks

Table of Contents

Critical Area 2: Geometry and Positions Page

Critical Area At A Glance	481A
Digital Resources	481C
Vocabulary Reader: School Fun	481–484
Real World Project	488B

Chapter 9 Identify and Describe Two-Dimensional Shapes

Domain: Geometry K.G

MATHEMATICAL PRACTICES

- | | |
|--|--|
| MP1 Make sense of problems and persevere in solving them. | MP5 Use appropriate tools strategically. |
| MP2 Reason abstractly and quantitatively. | MP6 Attend to precision. |
| MP3 Construct viable arguments and critique the reasoning of others. | MP7 Look for and make use of structure. |
| MP4 Model with mathematics. | MP8 Look for and express regularity in repeated reasoning. |

Planning Page

Chapter At a Glance	489A
Teaching for Depth	489E
Daily Classroom Management	489F
Strategies for English Language Learners	489G
Developing Math Language	489H
Review Prerequisite Skills	489I
Common Core Focus and Coherence: Learning Progressions and Content Standards	489J
Introduce the Chapter	489
Show What You Know	490
Vocabulary Builder	491
Game	492

Lessons Page

	Common Core State Standards	
9.1 Identify and Name Circles	K.G.A.2	493A
9.2 Describe Circles	K.G.B.4	499A
9.3 Identify and Name Squares	K.G.A.2	505A
9.4 Describe Squares	K.G.B.4	511A
9.5 Identify and Name Triangles	K.G.A.2	517A
9.6 Describe Triangles	K.G.B.4	523A
Mid-Chapter Checkpoint		526
9.7 Identify and Name Rectangles	K.G.A.2	529A
9.8 Describe Rectangles	K.G.B.4	535A
9.9 Identify and Name Hexagons	K.G.A.2	541A
9.10 Describe Hexagons	K.G.B.4	547A
9.11 Hands On: Algebra • Compare Two-Dimensional Shapes	K.G.B.4	553A
9.12 Problem Solving • Draw to Join Shapes	K.G.B.6	559A
Chapter 9 Review/Test		565–566
Chapter 9 Test		568A

Table of Contents

Chapter 10 Identify and Describe Three-Dimensional Shapes

Domain: Geometry K.G

Common Core MATHEMATICAL PRACTICES

MP1 Make sense of problems and persevere in solving them.

MP2 Reason abstractly and quantitatively.

MP3 Construct viable arguments and critique the reasoning of others.

MP4 Model with mathematics.

MP5 Use appropriate tools strategically.

MP6 Attend to precision.

MP7 Look for and make use of structure.

MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At a Glance	569A
Teaching for Depth	569E
Daily Classroom Management	569F
Strategies for English Language Learners	569G
Developing Math Language	569H
Review Prerequisite Skills	569I
Common Core Focus and Coherence: Learning Progressions and Content Standards	569J
Introduce the Chapter	569
Show What You Know	570
Vocabulary Builder	571
Game	572

Lessons

Common Core State Standards

Page

10.1 Hands On • Three-Dimensional Shapes	K.G.B.4	573A
10.2 Hands On • Identify, Name, and Describe Spheres	K.G.A.2	579A
10.3 Hands On • Identify, Name, and Describe Cubes	K.G.A.2	585A
10.4 Hands On • Identify, Name, and Describe Cylinders	K.G.A.2	591A
10.5 Hands On • Identify, Name, and Describe Cones	K.G.A.2	597A
Mid-Chapter Checkpoint		600
10.6 Problem Solving • Two- and Three-Dimensional Shapes	K.G.A.3	603A
10.7 Hands On • Model Shapes	K.G.B.5	609A
10.8 Above and Below	K.G.A.1	615A
10.9 Beside and Next To	K.G.A.1	621A
10.10 In Front Of and Behind	K.G.A.1	627A
Chapter 10 Review/Test		633–634
Chapter 10 Test		636A

Keep Ducks

Table of Contents

Critical Area 3: Measurement and Data

Page

Critical Area At A Glance	637A
Digital Resources	637C
Vocabulary Reader: Plants all Around	637
Real World Project	644B

Chapter II Measurement

Domain: Measurement and Data K.MD

MATHEMATICAL PRACTICES

MP1 Make sense of problems and persevere in solving them.

MP2 Reason abstractly and quantitatively.

MP3 Construct viable arguments and critique the reasoning of others.

MP4 Model with mathematics.

MP5 Use appropriate tools strategically.

MP6 Attend to precision.

MP7 Look for and make use of structure.

MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At a Glance	645A
Teaching for Depth	645C
Daily Classroom Management	645D
Strategies for English Language Learners	645E
Developing Math Language	645F
Review Prerequisite Skills	645G
Common Core Focus and Coherence: Learning Progressions and Content Standards	645H
Introduce the Chapter	645
Show What You Know	646
Vocabulary Builder	647
Game	648

Lessons

Common Core State Standards

Page

II.1 Hands On • Compare Lengths	K.MD.A.2	649A
II.2 Hands On • Compare Heights	K.MD.A.2	655A
II.3 Problem Solving • Direct Comparison	K.MD.A.2	661A
Mid-Chapter Checkpoint		664
II.4 Hands On • Compare Weights	K.MD.A.2	667A
II.5 Length, Height, and Weight	K.MD.A.1	673A
Chapter 11 Review/Test		679–680
Chapter 11 Test		682A

Table of Contents

Chapter 12 Classify and Sort Data

Domain:

Measurement and Data

K.MD

Connecting Domains and Clusters:

* This chapter also includes the following standards:
K.C.C.6

Common Core MATHEMATICAL PRACTICES

- MP1 Make sense of problems and persevere in solving them.
- MP2 Reason abstractly and quantitatively.
- MP3 Construct viable arguments and critique the reasoning of others.
- MP4 Model with mathematics.

- MP5 Use appropriate tools strategically.
- MP6 Attend to precision.
- MP7 Look for and make use of structure.
- MP8 Look for and express regularity in repeated reasoning.

Planning

Page

Chapter At A Glance	683A
Teaching for Depth	683C
Daily Classroom Management	683D
Strategies for English Language Learners	683E
Developing Math Language	683F
Review Prerequisite Skills	683G
Common Core Focus and Coherence: Learning Progressions and Content Standards	683H
Introduce the Chapter	683
Show What You Know	684
Vocabulary Builder	685
Game	686

Lessons

Common Core State Standards

Page

12.1 Hands On: Algebra • Classify and Count by Color	K.MD.B.3	687A
12.2 Hands On: Algebra • Classify and Count by Shape	K.MD.B.3	693A
12.3 Hands On: Algebra • Classify and Count by Size	K.MD.B.3	699A
Mid-Chapter Checkpoint		702
12.4 Hands On • Make a Concrete Graph	K.MD.B.3	705A
12.5 Read a Graph	K.MD.B.3	711A
Chapter 12 Review/Test		717–718
Chapter 12 Test		720A

