GRADE 2 • Unit 3

Place Value, Counting, and Comparison of Numbers to 1000

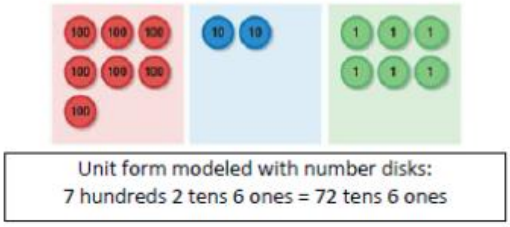
Topic A: Form Base-Ten Units: Bundle and Count Straws in Units of Ten, a Hundred and a Thousand

Terms:

Hundreds Place – the 5 in 576 tells how many hundreds are in a number

One Thousand - 1000

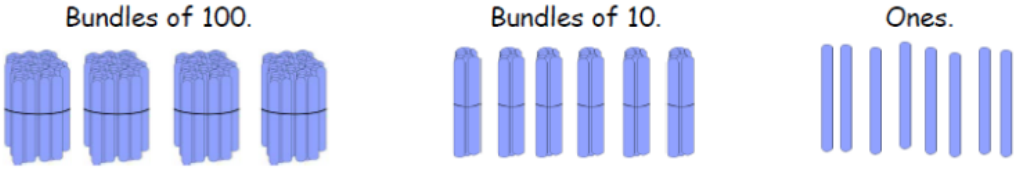
Place Value -



Unit form modeled with number disks:
7 hundreds 2 tens 6 ones = 72 tens 6 ones

Lesson 1: Bundle and Count Ones, Tens, and Hundreds to 1000

- Group items or numbers together to make bundles of tens or hundreds



Topic B: Understand Place Value: Count Straws and Bundles of Straws by Units of One, Ten and a Hundred

Terms:

Base-ten numerals – a thousand is 10 tens, a hundred is 10 ones

Lesson 2: Count Up and Down Between 100 and 220 Using Ones and Tens

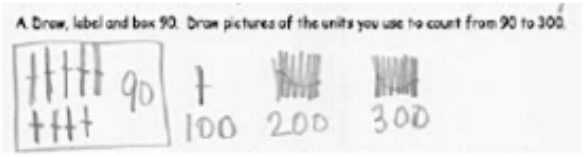
- Using singles or bundles, skip count emphasizing place value of tens and hundreds

Counting from 100 to 124

100, 110, 120, 121, 122, 123, 124

Lesson 3: Count Up and Down Between 90 and 1000 using Ones, Tens and Hundreds

- Use units of ten and a hundred to count up and down



Topic C: Read and Write 3-Digit Numbers within 1000 in Unit, Numeral, Expanded and Word Forms

Lesson 4: Count Up to 1000 on the Place Value Chart

- Using a place value chart, make bundles of tens and hundreds

Count 10 ones	1	2	3	4	5	6	7	8	9	10
Count 10 tens	10	20	30	40	50	60	70	80	90	100
Count 10 hundreds	100	200	300	400	500	600	700	800	900	1000

Lesson 5: Write Base-Ten Three-Digit Numbers in Unit Form; Show the Value of Each Digit

- Put numbers on a place value chart and identify its value in unit form and word form

Lesson 6: Write Base-Ten Numbers in Expanded Form

- Separate numbers by place value and write in an addition sentence

Examples:

200 + 40 + 9 = 249	9 + 40 + 200 = 249
900 + 10 + 3 = 913	913 = 3 + 900 + 10
400 + 3 = 403	3 + 400 = 403
200 + 50 = 250	250 = 200 + 50

100 + 100 + 10 + 10 + 10 + 10 + 1 + 1 + 1 = 243

200 + 40 + 3 = 243

Lesson 7: Write, Read, and Relate Base-Ten numbers in all Forms

- Read and write numbers in numeral form, expanded and word form

Terms:

Unit Form- states the amount of hundreds, tens, and ones in each number
11 is stated as "1 ten 1 one"; 27 as "2 tens 7 ones"
146 as "1 hundred 4 tens 6 ones"

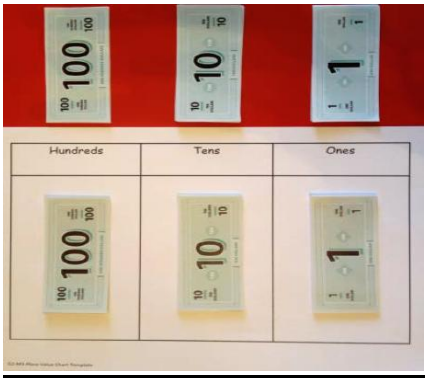
Word Form- five hundred seventy six

Expanded form – 576 = 500 + 70 + 6

Topic D: Model Base-Ten Numbers Within 1000 with One-Dollar, Ten-Dollar and Hundred-Dollar Bills

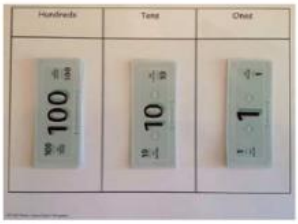
Lesson 8: Count the Total Value of $1, $10, and $100 Bills up to $1000

- The value of 5 one-dollar bills is $5, The value of 10 one-dollar bills is $10, the value of $100 one-dollar bills is $100



Lesson 9: Count from $10 to $1000 on the Place Value Chart and the Empty Number Line

- Use a place value chart to identify number and add one to the given number to reach desired amount



- Use a number line to count on to reach desired number

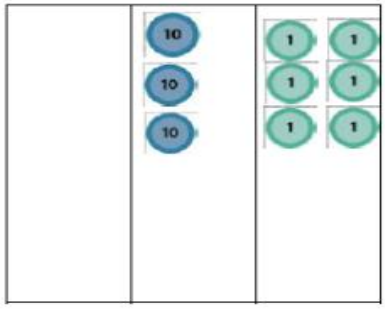
Lesson 10: Explore $1000. How many $10 Bills can We Change for a Thousand-Dollar bill?

- Understand that 100 ten-dollar bills equals $1000

Topic E: Model Numbers Within 1000 with Place Value Disks

Lesson 11: Count the Total Value of Ones, Tens, and Hundreds with Place Value Disks

3 tens 6 ones = 36

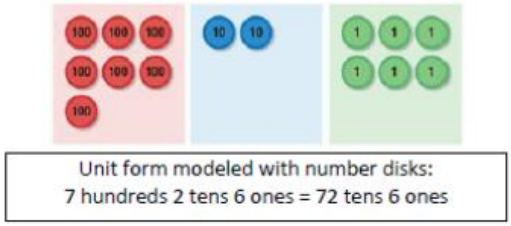


Lesson 12: Change 10 Ones to 1 Ten, 10 Tens for 1 Hundred, and 10 Hundreds for 1 Thousand

10 ones	1 ten
10 tens	1 hundred
10 hundreds	1 thousand

Lesson 13: Read and Write Numbers Within 1000 After Modeling with Place Value Disks

Number Disks:



Lesson 14: Model Numbers with More Than 9 Ones or 9 Tens; Write in Expanded, Unit, Numeral, and Word Forms

- 12 ones has more than 9 ones so it would be faster to use a ten –
  1 ten 2 ones

Lesson 15: Explore a Situation with More Than 9 Groups of Ten

Bundling, grouping: putting smaller units together to make a larger one
i.e. putting 10 ones together to make a ten

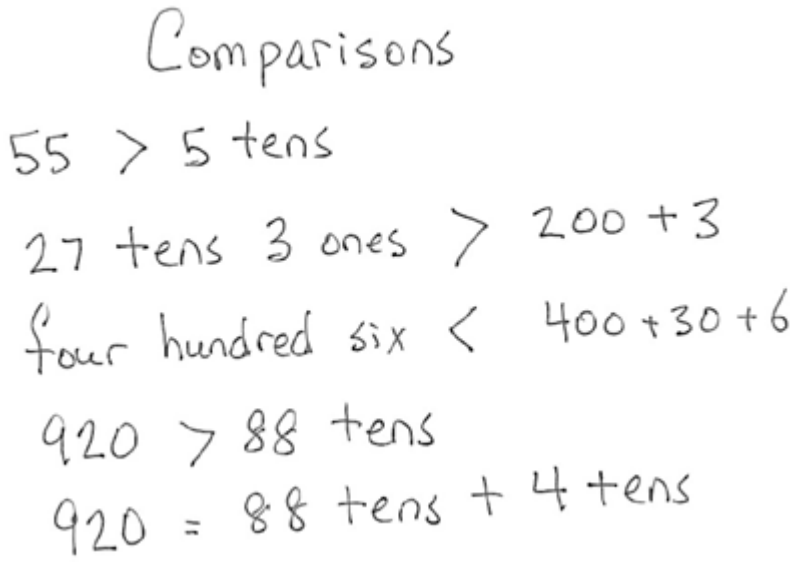
Renaming, changing (instead of "carrying" or "borrowing": a group of 10 ones is "renamed" a ten when the ones are bundled and moved from the ones to the tens place. If using $1 bills, they may be "changed" for a $10 bill when there are enough

Topic F: Use Place Value to Compare Two 3-Digit Numbers

Lesson 16: Compare Two Three-Digit Numbers with <, >, and =

- 257 > 250 257 is greater than 250
- 250 < 257 250 is less than 257
- 250 = 250 250 is equal to 250

Lesson 17: Compare Two Three-Digit Numbers with <, >, and = when There are More Than 9 Ones and 9 Tens



Lesson 18: Order Numbers in Different Forms

317 three hundred seventy 307

Ordered smallest to greatest in numeral form: 307, 317, 370

Topic G: Use Place Value Understanding to Find 1, 10, and 100 More or Less Than a Number

Lesson 19: Model and use language to tell about 1 more and 1 less, 10 more and 10 less, and 100 more and 100 less

	Than 242 is	153
100 more	342	253
100 less	142	53
10 more	252	163
10 less	232	143
1 more	243	154
1 less	241	153

Lesson 20: Model 1 more and 1 less, 10 more and 10 less, and 100 more and 100 less when changing the hundreds place

1 more than 209 is 210

10 more than 394 is 404

Lesson 21: Complete a pattern counting up and down