1 Whole Numbers

Note to teachers: The proposed number of periods is intended to be flexible. Teachers are encouraged to modify it in accordance with the students' needs, learning pace, and the school's timetable.

Unit 1	Whole Numbers	Number of Periods
	Write ordinal numbers from first to twentieth	2
	Write numbers 1-100 in words	3
	Read numbers up to 999	4
	Write numbers up to 999 as numerals	
	Recognise the place value of a 3-digit number	
	Identify the place value of a specific digit in a 3-digit numbers	
	Compare 2-digit numbers with 3-digit numbers (hundreds, tens and ones)	3
	Compare 3-digit numbers with 3-digit numbers (hundreds, tens and ones)	
	Count backward ten steps down from any given number	2
	Arrange numbers up to 999, written in mixed form, in increasing or decreasing order	2
	Count and write in 10s (e.g. 10, 20, 30, ...)	3
	Count and write in 100s (e.g. 100, 200, 300, ...)	
	Identify the smallest/largest number in a given set of numbers	2
	Recognise that 1000 is one more than 999 and the first 4-digit number	1
		22

Resources

Suggested manipulatives that can be used to create interest and create a link to the topic.

- Ordinal Numbers Poster. A poster for ordinal numbers 1st – 20th,

- Ordinal Numbers Flashcards. ...
- Ordinal Numbers Bingo Cards. ...
- Ordinal and Cardinal Number Posters. ...
- Ordinal Numbers Worksheet.

Twenty	Thirty	Forty	Fifty
Sixty	Seventy	Eighty	Ninety

- Number cards
- Number line
- Place value card

Number	In word	Expanded form
342	3 hundred 4 tens 2 ones	300 + 40 + 2 = 342
_____	4 hundred 7 tens 5 ones	
_____		200 +70 +8 = _____

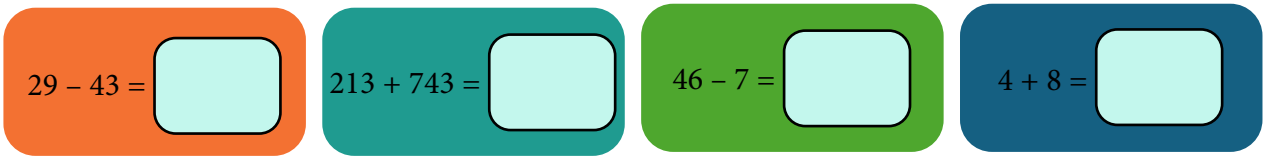
2 Addition

Unit 2	Addition	Number of Periods
	Add ones and ones	2
	Add ones and 2-digit numbers with carrying	4
	Add 2-digit numbers and 2-digit numbers with carrying	
	Add 3-digit numbers and ones without carrying	4
	Add 3-digit number and 2-digit number without carrying	
	Add 3-digit number and 3-digit number without carrying	
	Add 3-digit number and 1-digit number with carrying of tens and hundreds	4
	Add 3-digit number and 2-digit number with carrying of tens and hundreds	
	Add 3-digit numbers with 3-digit numbers with carrying of tens and hundreds	
	Solve real life number stories, involving addition of 2-digit numbers with carrying, involving addition of 3-digit numbers without carrying and with carrying of tens and hundreds	4
		18

Resources

Suggested manipulatives that can be used to create interest and create a link to the topic.

- Addition/Subtraction Cards



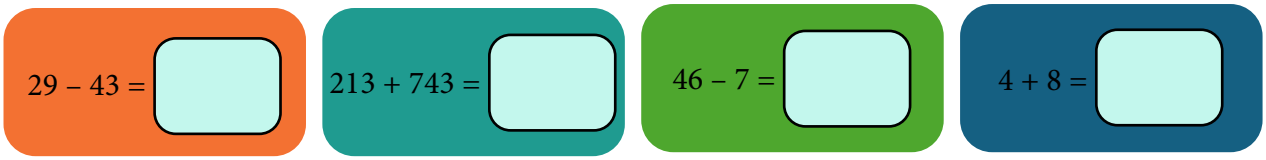
3 Subtraction

Unit 3	Subtraction	Number of Periods
	Subtract 1-digit number from 2-digit numbers with borrowing	2
	Subtract 2-digit numbers from 2-digit numbers with borrowing	3
	Subtract 1-digit from 3-digit number without borrowing	5
	Subtract 2-digit number from 3-digit number without borrowing	
	Subtract 3-digit numbers from 3-digit numbers without borrowing	
	Subtract 1-digit number from 3-digit number with borrowing	
	Subtract 2-digit number from 3-digit number with borrowing	
	Subtract 3-digit number from 3-digit number with borrowing	
	Solve real life number stories of subtraction of 2-digit numbers with borrowing, 3 digits without borrowing and with borrowing	3
	Analyse simple situations identifying correct operation of addition and subtraction with carrying/borrowing in mixed form	3
		16

Resources

Suggested manipulatives that can be used to create interest and create a link to the topic.

- Addition/Subtraction Cards



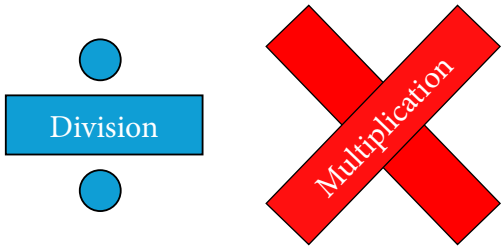
4 Multiplication

Unit 4	Multiplication	Number of Periods
	Recognise multiplication as repeated addition (e.g. 2+2+2=6 is equivalent to 3 times 2 = 6 and 3 x 2 = 6) and use multiplication symbol 'x'	3
	Complete number sequences in steps of 2, 3, 4, 5, and 10 (e.g. in steps of 2 the sequence is expressed as 2, 4, 6, ...)	2
	Develop multiplication tables of 2, 3, 4, 5, and 10 till the multiplication of 10 x 10	3
	Multiply numbers within multiplication table	3
	Write a number sentence for multiplication from the picture such as 2 x 3 = 6	3
	Solve number stories on multiplication up to 1-digit numbers	
		14

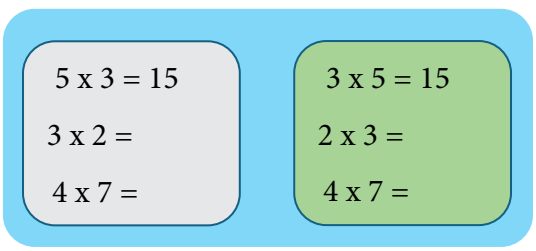
Resources

Suggested manipulatives that can be used to create interest and create a link to the topic.

- Multiplication/Division symbol card



- Multiplication cards



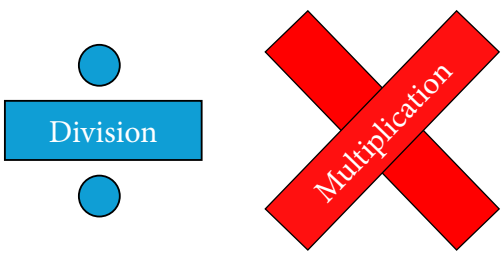
5 Division

Unit 5	Division	Number of Periods
	Recognise and use division symbols ÷.	2
	Recognise division as successive subtraction	
	Divide numbers within the multiplication tables with remainder zero	3
	Solve number stories involving division up to 1-digit numbers	3
	Solve real life situations (using Pakistani currency as well) involving addition, subtraction, multiplication, and division. Give reasons for choosing the correct operation	3
		11

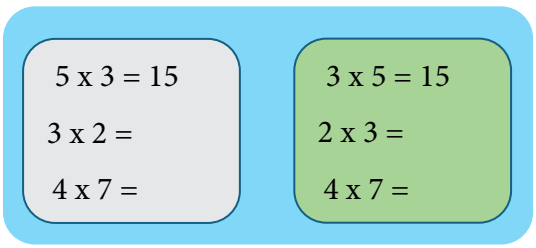
Resources

Suggested manipulatives that can be used to create interest and create a link to the topic.

- Multiplication/Division symbol card



- Multiplication cards



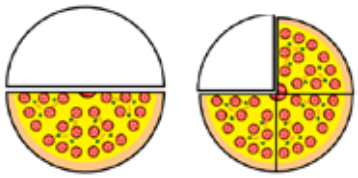
6 Fractions

Unit 6	Fractions	Number of Periods
	Recognise fractions as equal parts of a whole	2
	Identify half, one third and quarter with the help of objects and figures (without writing 1/2, 1/3, 1/4)	3
	Represent half, one third and quarter in numerical form (1/2, 1/3, and 1/4)	
	Shade the equal parts of a given figure to match a given fraction	3
	Recognise and name unit fractions up to 1/10	3
	Recognise fractions like two thirds (2/3), three fourths (3/4), four fifths (4/5), up to nine tenths (9/10)	3
		14

Resources

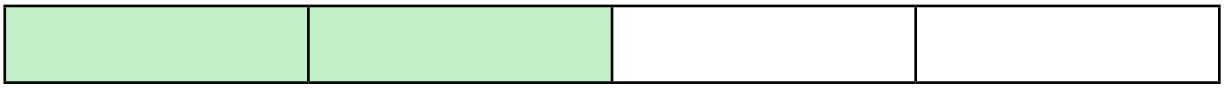
Suggested manipulatives that can be used to create interest and create a link to the topic.

- **Paper Plates**: When teaching fractions, you could use paper plates
- **Analog Clock:** If you want to teach students about fractional parts that are divided equally into twelfths, why not use a clock? ...
- **Fraction circles can be used for ½, ¼**
-



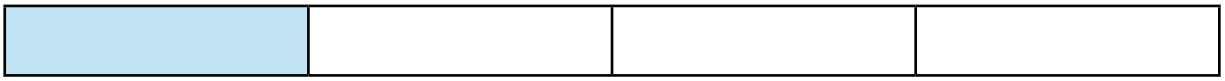
- Fraction Strips

1/2



1/3

1/4



7 Measurement

Unit 7	Measurement	Number of Periods
	Compare the lengths of different objects	3
	Recognise the units of length (meter and centimeter)	
	Use standard metric units of length (meter and centimeter) and their abbreviation to measure and record lengths of variety of objects	
	Use addition and subtraction within 100 to solve real life situations involving lengths in same units	3
	Compare the mass of different objects	3
	Recognise the units of mass, i.e. kilogram, gram	
	Use standard metric units of mass (kilograms and grams) and their abbreviation to measure and record mass of variety of objects	
	Use addition and subtraction within 100 to solve real life situations involving mass in same units	3
	Compare the capacity of different objects using nonstandard units (jug, glass, cup, etc.)	3
	Recognise and use the standard metric units of capacity, i.e. litre and millilitre	
	Use addition and subtraction within 100 to solve real life situations involving capacity in same units	3
		18

Resources

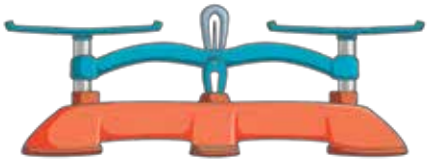
Suggested manipulatives that can be used to create interest and create a link to the topic.

- Ruler, yardstick, and measuring tapes
- Labeling Sizes: Start by labeling common objects in terms of their size.
- Using Measuring cups and scoops

- Incorporating Math Games for Measurement.
- Estimation Game
- Balance Scale Activity.

  Use balancing scales to compare weights.

#	Items	Comparison
1.	A pen and a Math book	Math book is Heavy
2.	A pencil and a ruler	
3.	A lunch box and a water bottle	



- Estimate and measure worksheet (can be made for length and capacity as well)

objects	My guess (more than, less than, or about 1 kg)	Measured mass

Time

Unit 8	Time	Number of Periods
	Recognise the number of hours in a day and numbers of minutes in an hour	3
	Read and write the time from a clock in hours and minutes (with five-minute intervals) e.g. read 8:15 as eight fifteen and 8:50 as eight fifty	
	Recognise a.m. and p.m	3
	Draw hands of a clock to show time in hours and minutes (with five-minute intervals)	3
	Use solar calendar to find a particular date/day	3
	Use Islamic calendar to find a particular date/day	2
		14

Resources

Suggested manipulatives that can be used to create interest and create a link to the topic.

- Blank analogue and digital clock worksheet
- Telling time

25 minutes past 2
2:25

15 minutes past 12
12:15

35 minutes past 4
4:35

10 minutes past 8
8:10

30 minutes past 10
10:30

20 minutes past 3
3:20

5 minutes past 1
1:05

45 minutes past 9
9:45

55 minutes past 7
7:55

- Current year solar calendar
- Current year lunar calendar
- Twenty-four hours a.m. and p.m. chart

9 Geometry

Unit 9	Geometry	Number of Periods
	Identify the figures like square, rectangle, triangle, circle, semi-circle, and quarter-circle	3
	Identify vertices and sides of a triangle, rectangle, and square	
	Differentiate between a straight line and a curve	2
	Identify straight lines and curves from the given drawings	
	Use ruler to draw a straight line of given length (exclude fractional length)	3
	Make/complete geometrical patterns on square grid according to one or two of the following attributes • Shape • Size • Orientation	3
	Recognise and name 3D Objects (cubes, cuboids, cylinder, cone, sphere)	2
		13

Resources

Suggested manipulatives that can be used to create interest and create a link to the topic.

- 3D Shape building material:
  - Paper straws.
  - Pipe cleaners.
  - Scissors.
- 3D Shape Worksheets
- 2D Shapes Poster
- 3D Shapes Poster