

Year 1

Power Maths Books A, B and C Knowledge organisers





Year 1

Power Maths Book A Knowledge organisers Units 1 - 6



Unit I Numbers to 10





In this unit we will ...

- Compare and order numbers
- ✓ Learn to use a number line

You can count to find how many there are. How many



are there?

1 2



















We will need some maths words. Do you know some of these?

count back sort groups digits fewer one more, one more than one less, one less than matched less than (<) greater than (>) equal to (=) least most greatest number line fewest number track pattern

Do you remember how to say these numbers? Count to 10!





Unit 2 Part-whole within 10



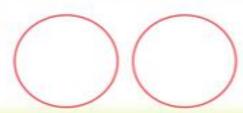


In this unit we will ...

- ✓ Use the part-whole model
- ✓ Write number sentences
- Find different ways to make a number

How could you put these flowers into 2 groups?
Use to help you!









Here are some maths words. Have you used any of these before?

groups part-whole model
number sentence
part whole plus

How many different ways can you make 5? Use to help.







Unit 3 Addition and subtraction within 10



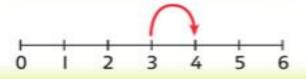




In this unit we will ...

- Add parts to find the whole
- ≠ Find a missing part

Do you remember what this is called? Use it to find one more than 3.

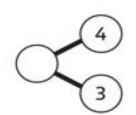


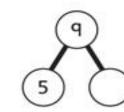


We will need some maths words. Which ones mean the same thing?

altogether (say 'all-too-geth-er') in total add, added count on missing part number stories

We need these too! Use them to make number sentences.







Unit 4 Addition and subtraction within 10 2

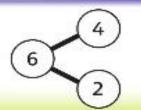


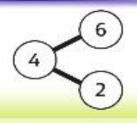


In this unit we will ...

- ★ Take away to find how many are left
- Subtract by breaking the whole into parts
- ✓ Discover related number facts

We have used this before. Which shows the problem correctly?







These maths words and phrases will help us. Do you know any of these?

how many are left? take away
subtract count backwards
how many more how many fewer
difference addition

How can you use to find which is greater?







Unit 5 2D and 3D shapes





- ✓ Name 3D shapes
- ✓ Name 2D shapes

In this unit we will ...

Here are some shapes. Can you name them?





We will need some shape words. Do you know some more shape words?

3D shape cuboid cube pyramid cylinder sphere cone 2D shape circle triangle rectangle faces repeat pattern square

> Which shape is the odd one out? Why?







Unit 6 Numbers to 20







We will need some maths words. Which words do you already know?

smallest order

> tens ones



In this unit we will ...

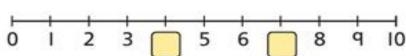
- ★ Count using tens and ones
- ★ Count one more and one less

We will use tens to help count. How many are there?





We need this too! Which numbers are missing?







Year 1

Power Maths Book B Knowledge organisers Units 7 - 11



Unit 7 Addition within 20



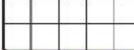


In this unit we will ...

- ★ Add by counting on
- ✓ Use number bonds to I0 to help
 us with numbers bonds to 20
- ✓ Solve word problems

We will need a ten frame again. How would you use a ten frame to add 8 red counters and 5 yellow counters?





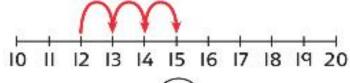


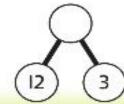


We will need some maths words. Which words do you already know?

add altogether
ones tens
number bonds part-whole

We can still use this bill to help us. What is I2 + 3?







Unit 8 Subtraction within 20



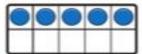


In this unit we will ...

- ✓ Learn how to cross a IO when subtracting
- Compare additions and subtractions

We will need a ten frame again. Can you remember how to use it to help you find the answer to I5 – 3?



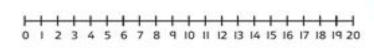




We will need some maths words. Have you seen all of these before?

subtract take away
find the difference
how many are left?
tens ones number bonds
part-whole

We can also use this and this to help us.
What is 13 – 3?



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

34

Unit 9 Numbers to 50

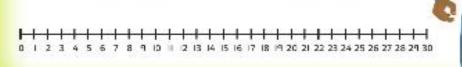




In this unit we will ...

- ≠ Compare numbers to 50
- ✓ Order numbers

We can use a number line to help us order and compare numbers. Which number is larger, 12 or 21?





We will need some maths words and signs.

Do you remember these?

tens ones

compare order

less than (<) greater than (>)

We can use different things to show the value of a number. We can use

or .

What number is shown here?













Unit 10 Introducing length and height





In this unit we will ...

- Compare lengths and heights of objects
- Use non-standard units to measure objects
- ✓ Solve word problems about length

We can use cubes to help us compare the length of objects. Which is longer, the pen or the pencil?









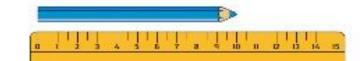
We will need some maths words. Can you read them out loud?

long, longer, longest
short, shorter, shortest
tall, taller, tallest
length height

measure

We use a ruler to measure lengths. How long is this pencil?

compare





Unit II Introducing weight and volume



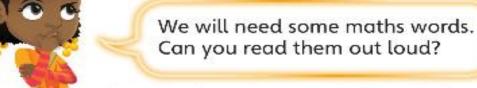


- Solve word problems about weight and capacity

Have you seen one of these before? It is a balance scale. We can use it to compare the weight of objects. Which item do you think is heavier?







heavier, heaviest lighter, lightest
capacity balance scales
full empty compare
weight, weigh balanced
measure estimate

We can use glasses to measure capacity. Which jug had the most squash in it?















Year 1

Power Maths Book C Knowledge organisers Units 12 - 18



Unit I2 Multiplication





In this unit we will ...

- ≠ Count in 10s, 5s and 2s

- ✓ Solve word problems

An array will be useful. How many flowers are there? Is there a quicker way to count them?



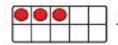




We will need some maths words. Have you heard any of these before?

equal groups array row column double twice

We will use ten frames to help us find doubles. What is double 3?









Unit I3 Division





We will need some maths words. Which of these are new?

equal groups share



In this unit we will ...

- ✓ Share amounts equally

Counters can help us show groups. Can you use counters to find how many groups of 2 flowers there are?







We can also use a number line to help us. Can you put these into groups of 5? How many groups are there?







Unit 14 Halves and quarters

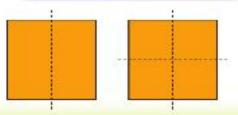




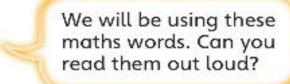
In this unit we will ...

- Find a quarter of a shape or object
- Solve word problems about halves and quarters

We can find half of a shape. Which shape has been cut in half?







half halves quarter

We will also do some sharing. Share the jam tarts equally. How many does each child get?

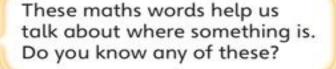




Unit 15 Position and direction







turn half turn quarter turn three-quarter turn whole turn position right forwards backwards left above below top middle bottom down in between up

In this unit we will ...

- ✓ Say if something is at the top. middle or bottom

We will use these arrows to show turns. Which one do you think shows a whole turn?











Look at where these animals are. Which animal is on the bottom shelf?







Unit 16 Numbers to 100





In this unit we will ...

- ★ Learn how to use a 100 square
- ✓ Use tens and ones to make larger numbers
- ✓ Say which number is larger and smaller
- ₹ Find numbers which add to 100

We will use this 100 square. Can you find number 30?

1	2	3	4	5	9	7	5	4	10
4	12	13	14	5	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
11	32	33	34	15	36	37	38	30	40
61	47	42	44	45	66	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	68	64	65	66	67	68	69	70
21	72	73	74	75	26	77	78	79	an
81	82	83	84	85	86	87	88	89	90
9	92	93	94	95	96	97	98	99	100





We will need some maths words. Can you read these out loud?

100 square number square place value grid

We will need this too. What number is shown here?

Tens	Ones			
Qualitation Qualitation	999			



Unit 17 Time





In this unit we will ...

- ★ Say if things happen before or after
- ✓ Use a calendar
- ≠ Tell time to the hour and the half hour
- ✓ Solve time word problems

This is a calendar. Can you use it to find how many days are in a week?





We will need some maths words. You may know some of these.

before after yesterday today tomorrow day week slower faster month year calendar date minute hand hour hand o'clock half past second minute

hour

There are lots of different types of clock. Do all of these show the same time?





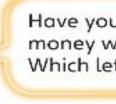




Unit 18 Money







Have you heard these money words before? Which letter means pence?

pound pence coins notes



In this unit we will ...

- ✓ Learn about coins
- ✓ Learn about notes
- using coins

Here are some coins. Do you know which is the 5 pence coin?





















Do you remember these signs? > < Complete this sentence using > or < .







