

Preview:

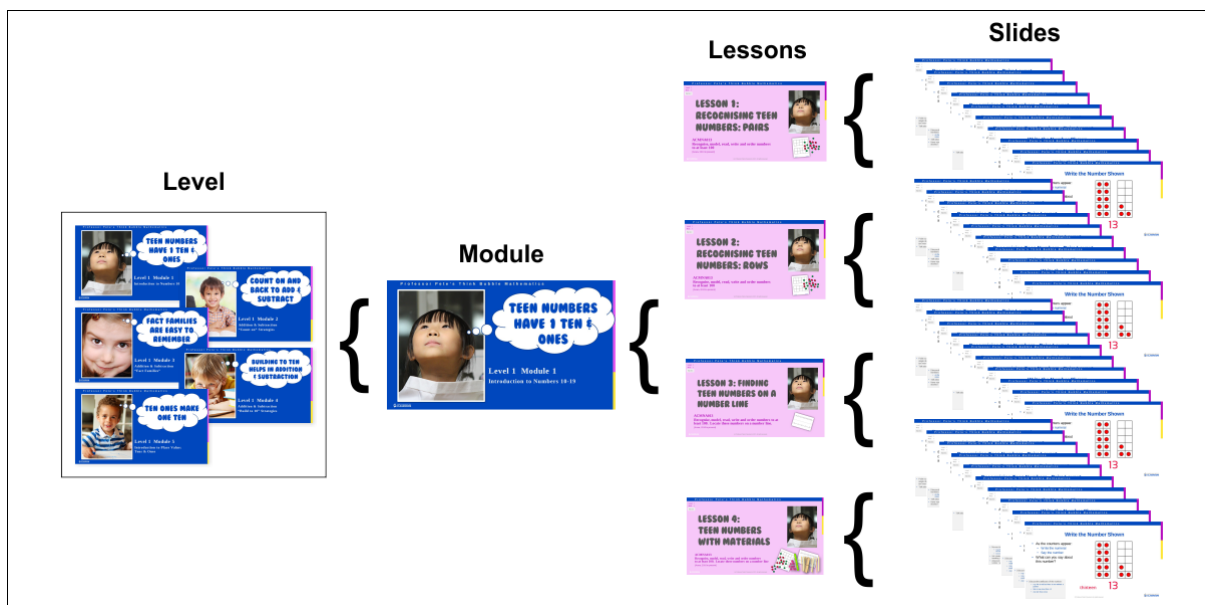
# THINK BUBBLE MATHEMATICS

## LEVEL 5

What is Think Bubble Math?

Think Bubble Mathematics is a completely new program of innovative resources for teaching K-6 mathematics, based on the idea of helping students to visualise the mathematics they are learning via animated images and text.

Each TBM level includes Modules based around selected curriculum topics. Each Module is contained in a single PowerPoint show file, and is made up of several Lessons, made up of slides:



Many Modules include accompanying worksheets which match the PowerPoint slides, making it easier for students to record their answers to selected questions on the slides.

Purchasers are sent an email containing all links required to download the Think Bubble Mathematics files, including the supporting worksheets.

Selected Slide Previews:

Module Title

Sample Slide Preview

Doubling, Halving 2 Digit Numbers Mentally [PowerPoint TBM501]

Professor Pete's Think Bubble Mathematics

Level: 5  
Half: 1  
RELIX

**Dividing by 10**

$25 \div 10 = 2.5$

• Dividing a number by 10 results in a smaller number: this should allow students to realize that the digits must move to the right.

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Tenths and Hundredths [PowerPoint TBM502]

Professor Pete's Think Bubble Mathematics

Level: 5  
Half: 2  
RELIX

**Tenths on Number Line**

- Write the decimal and common fractions
- Locate on the number line

0.1     $\frac{1}{10}$

• Use: students write or draw the missing fraction and place a mark on a number line that is where they think the number is located.  
• Have a student come to the board and mark or point to where they think the fraction is located.  
• Discuss

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Rounding and Estimating [PowerPoint TBM503]

Professor Pete's Think Bubble Mathematics

Level: 5  
Half: 2  
RELIX

**Rounding to the Nearest Whole Number**

- We use the same process when rounding decimal numbers
- Look at the number of tenths (one place lower)
- Write the number it is closer to

Round to nearest: 1 whole number

5    5.5    6

• The larger the denominator, the smaller the fraction

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Compare and Order Common Fractions [PowerPoint TBM504]

Professor Pete's Think Bubble Mathematics

Level: 5  
Half: 4  
RELIX

**Comparing Fractions**

- Arrange in order of smallest to largest
- What happens to the fraction as the denominator gets larger?

$\frac{1}{3}$      $\frac{1}{5}$      $\frac{1}{4}$

The larger the denominator, the smaller the fraction

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Factors and Multiples [PowerPoint TBM505]

Professor Pete's Think Bubble Mathematics

Level: 5  
Half: 5  
RELIX

**Multiples of 3**

Multiples of 3 and 9 include some cool patterns

Does any number is a multiple of 3?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

• Discuss the patterns revealed in this grid.  
• Discuss coloring magic-digit multiples of 3, 36, 99 etc.  
• The diagonal shaded pattern

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Least Common Multiple, Greatest Common Factor [PowerPoint TBM506]

Professor Pete's Think Bubble Mathematics

Level: 5  
Mark: 6  
ID: 506

### Factor Trees

- Draw your own factor tree for this number

Prime factors of 128:  $2, 2, 2, 2, 2, 2, 2, 2$

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Add and Subtract Fractions, Mixed Numbers, Like Denominators [PowerPoint TBM507]

Professor Pete's Think Bubble Mathematics

Level: 5  
Mark: 7  
ID: 507

### Subtracting Fractions – Like Denominators

METHOD 2

- Convert both of the mixed numbers to improper fractions
- Commence the takeaway

$3 \frac{2}{6} - 1 \frac{5}{6} = \frac{20}{6} - \frac{11}{6} = \frac{9}{6} = 1 \frac{3}{6} = 1 \frac{1}{2}$

- This is the second method to take away mixed numbers.
- Converting all of the shapes to fractions (both mixed and subtracted).
- It also requires working with larger numbers.

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Thousandths Introduced [PowerPoint TBM508]

Professor Pete's Think Bubble Mathematics

Level: 5  
Mark: 8  
ID: 508

### Decimals – Base Ten Blocks

- Compare the sizes of the decimals

1 one 1	10 tenths 0.1	100 hundredths 0.01	1000 thousandths 0.001
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- Compare: one block divided into each of the fractions.

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Reading and Writing Numbers to Millions and Decimals [PowerPoint TBM509]

Professor Pete's Think Bubble Mathematics

Level: 5  
Mark: 9  
ID: 509

### Saying and Writing Numbers in Billions and Beyond

Trillions	Billions	Millions	Thousands	Ones
HTO	HTO	HTO	HTO	HTO
11,009	572	100	293	

eleven trillion,  
nine billion,  
five hundred and seventy-two million,  
one hundred thousand,  
two hundred and ninety-three

- Reading a number: emphasise that the same system of reading the HTO is repeated throughout the number.
- Read and spell the number shown.

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Time: Seconds, 24 hour clocks, Calendars [PowerPoint TBM510]

Professor Pete's Think Bubble Mathematics

Level: 5  
Mark: 10  
ID: 510

### 24 Hour Clock

- This 24 hour clock has an inner and outer clock face.
- The first 12 hours is the inner face.
- The second 12 hours is the outer clock face.

00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

ante meridiem – before midday      post meridiem – after midday

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## Level 5 Lesson Topics:

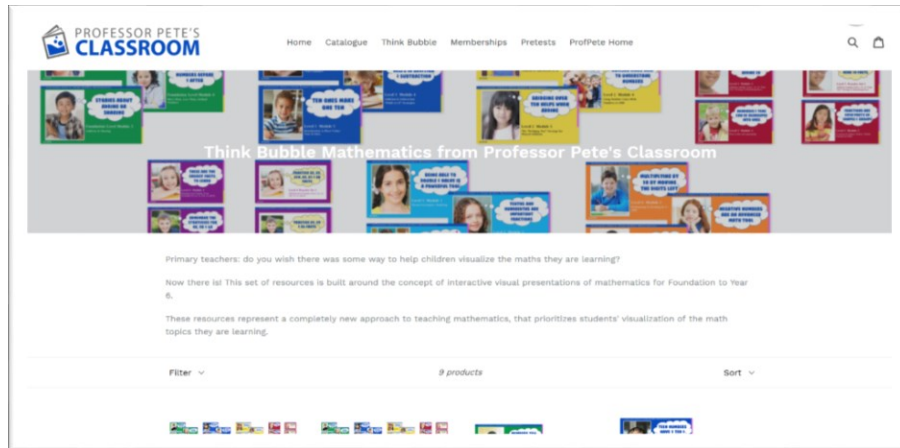
- Module 1:
  - Doubling 2 Digit Numbers - Mental Strategy
  - Halving 2 digit Numbers - Mental Strategy
  - Halving 2 digit Numbers - Mental Strategy
  - Multiplying & Dividing by 20
- Module 2:
  - Revising Tenths
  - Hundredths
  - Hundredths Number Expander
  - Hundredths Number Lines
- Module 3:
  - Rounding to Tens and Hundreds
  - Rounding to Ones and Tenths
  - Estimating Using Rounding
  - Estimating Money Using Rounding
- Module 4:
  - Converting Mixed Numbers and Improper Fractions
  - Comparing Unit Fractions with Different Denominators
  - Comparing Common Fractions with Different Denominators
  - Locating Fractions on a Number Line
- Module 5:
  - Multiples of 2 and 4
  - Multiples of 5, 10 and 11
  - Multiples of 3 and 9
  - Factor Trees
- Module 6:
  - Multiples of Numbers to 12
  - Factor Trees
  - Lowest Common Multiples (LCM)
  - Greatest Common Factors (GCF)
- Module 7:
  - Adding Fractions with Like Denominators
  - Adding Mixed Numbers with Like Denominators
  - Subtracting Fractions with Like Denominators
  - Subtracting Mixed Numbers with Like Denominators
- Module 8:
  - Thousandths with Folded Paper and Shapes
  - Thousandths with Base Ten Blocks
  - Thousandths with a Number Expander
  - Thousandths on Number Lines
- Module 9:
  - Using Root Number Words
  - Numbers in the Millions
  - Fractions and Decimals
  - Reading and Spelling Numbers Beyond Millions
- Module 10:
  - Time with Seconds
  - 24 Hour Clock
  - Time Problems
  - Calendar Use

## Accessing Think Bubble Mathematics

There are two options to get full access to these resources:

- A. Purchase a Think Bubble Mathematics product

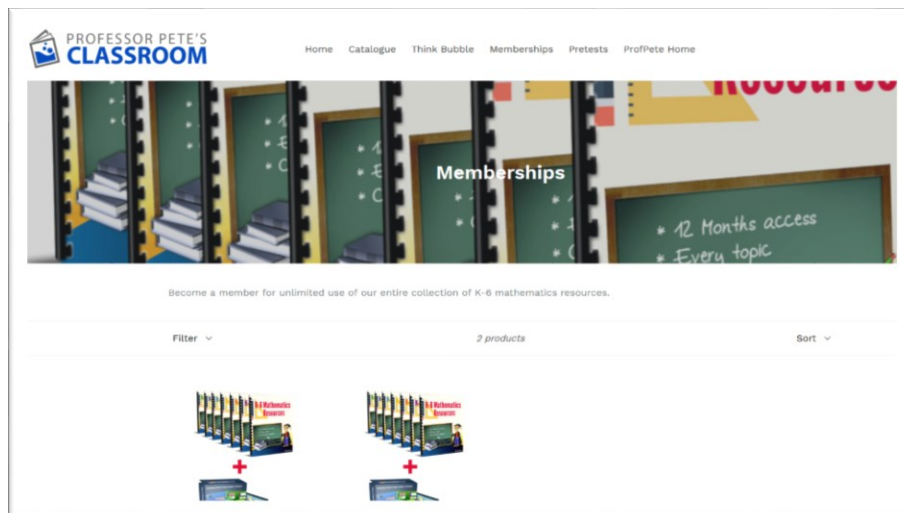
Go to [our store](#) to purchase the level/s you require:



[\[https://professor-petes-classroom.myshopify.com/collections/think-bubble-mathematics\]](https://professor-petes-classroom.myshopify.com/collections/think-bubble-mathematics)

- B. Become a member at Professor Pete's Classroom

Members have 12 months' access to all our resources, including all the Think Bubble Mathematics resources. Go to [our store](#) to become a member:



[\[https://professor-petes-classroom.myshopify.com/collections/memberships\]](https://professor-petes-classroom.myshopify.com/collections/memberships)