

# Digital Manipulatives to Support Learning

Extending knowledge and understanding through concrete, pictorial and abstract

## Number Pieces

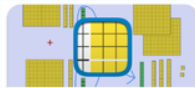


### Math Learning Center

Click or scan  
the QR code



Use virtual base ten  
pieces to represent and  
work with multi-digit  
numbers.



## Place Value Counters



### Maths bot

Click or scan  
the QR code



Use virtual place value  
counter pieces to  
represent and work with  
multi-digit numbers.



## Arrow cards



### Maths bot

Click or scan  
the QR code



Use virtual arrow cards  
to represent and work  
with multi-digit numbers.



## Organiser - Number and Number Processes

Digital Manipulatives



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## Number Frames



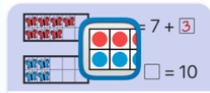
### Math Learning Center

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the QR code



SCAN ME

**Represent** numbers by placing counters inside of five-, ten-, double ten-, and custom frames.



## Number Line 1



### Polypad

Click or scan  
the QR code



SCAN ME

**Visualise** and work with numbers in sequence on a virtual number line with or without tick marks.



## Number Line 2



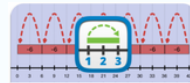
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SCAN ME

**Visualise** and work with numbers in sequence on a virtual number line with or without tick marks.



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## Number Chart



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Click or scan  
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SCAN ME

Count, explore number patterns, or create your own grid with fractions, decimals, and more.



## Colourful Cubes



### Oidax

Click or scan  
the QR code



SCAN ME

Represent patterns and number patterns using these virtual manipulatives.



## Bar Modelling



### Maths bot

Click or scan  
the QR code



SCAN ME

Use virtual base ten pieces to represent and work with multi-digit numbers.



# Digital Manipulatives to Support Learning

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## Counters



### Didax

Click or scan  
the QR code



SCAN ME

Count, explore number patterns, or create your own.



## Colourful Cubes



### Polypad

Click or scan  
the QR code



SCAN ME

Represent patterns and number patterns using these virtual manipulatives.



## Numicon



### Mathsbot

Click or scan  
the QR code



SCAN ME

Visualise and work with virtual Numicon / number frames while adding and subtracting.



# Digital Manipulatives to Support Learning

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## Fractions



### Math Learning Center

Click or scan  
the QR code



SCAN ME

Represent fractions with denominators from 1 to 100 with circle and bar models.



## Fraction Wall $\frac{2}{3}$

### Polypad

Click or scan  
the QR code



SCAN ME

Visualise and work with virtual fraction walls and circles to support learning.



## Fraction Number Lines



### Didax

Click or scan  
the QR code



SCAN ME

Visualise and work with virtual fraction tiles and number lines.



# Digital Manipulatives to Support Learning

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## Money



### Oryx learning virtual money

Click or scan  
the QR code



Drag and drop  
manipulatives for money.  
Most realistic coins  
virtually.



## Coin Manipulatives 1



### Mathsbot

Click or scan  
the QR code



Drag and drop  
manipulatives for  
money. Clip art icons.



## Coin Manipulatives 2

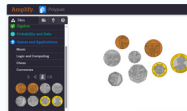


### Polypad

Click or scan  
the QR code



Drag and drop  
manipulatives for  
money. Clip art icons.



# Digital Manipulatives to Support Learning

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**Clock**



## Math Learning Center

**Click or scan  
the QR code**



**SCAN ME**

**Explore** time and more on virtual clocks with geared or free-moving hands. Analogue and Digital.



**Variety of Clocks**



## Polypad

**Click or scan  
the QR code**



**SCAN ME**

**Explore** time and more on virtual clocks with Live, geared or free-moving hands.



**Digital & Analogue**



## Toy Theatre

**Click or scan  
the QR code**



**SCAN ME**

**Explore** time and more on virtual clocks with geared or free-moving hands. Analogue and Digital.



# Digital Manipulatives to Support Learning

Extending knowledge and understanding through concrete, pictorial and abstract

## Geoboard

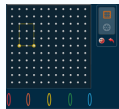


### Didax

Click or scan  
the QR code



Stretch virtual bands  
around pegs to form  
line segments and  
polygons.



## Shape Patterns



### Math Learning Center

Click or scan  
the QR code



Explore counting,  
geometry, fractions, and  
more with a set of virtual  
pattern blocks.



## Tiling



### Math Learning Center

Click or scan  
the QR code



Use virtual pentagon  
tiling shapes to create  
patterns in the style of  
MC Escher.



## Organiser - Properties of 2D shapes and 3D objects

Digital Manipulatives





# Digital Manipulatives to Support Learning

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## Tools to Support



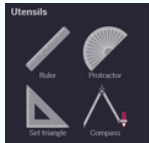
### Math Learning Center

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SCAN ME

Use virtual base ten pieces to represent and work with multi-digit numbers.



## Whiteboard



### Math Learning Center

Click or scan  
the QR code



SCAN ME

Solve problems and explain your thinking in a digital math workspace.



## Symmetry



### Math Learning Center

Click or scan  
the QR code



SCAN ME

Use virtual pentagon tiling shapes to create symmetrical patterns using the shapes.



## Organiser - Angle, symmetry and transformation

Digital Manipulatives



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## Playing Cards



### Polypad

Click or scan  
the QR code



SCAN ME

Use virtual playing cards  
to represent and work  
with probability.



## Coins, Dice & Spinners



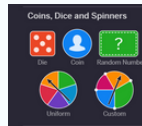
### Polypad

Click or scan  
the QR code



SCAN ME

Use virtual dice,  
counters and number  
cards to represent and  
work with probability.



## Polyhedral Dice



### Math Learning Center

Click or scan  
the QR code



SCAN ME

Use virtual  
polyhedral dice to  
represent and work  
with probability.

