

# Prime Numbers 

## Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

## Aim

- Establish whether a number up to 100 is prime and recall prime numbers up to 19 .


## Prime Numbers

 Diving

## Prime Numbers Deeper



Michael is incorrect. 81 is a multiple of 3 and therefore has more than 2 factors and is a composite number.

## Prime Numbers

## What number am I?

Use the clues to find all the possible numbers.
You might want to use a hundred square to help you.


## Prime Numbers Deepest

Amira sets a challenge for her friend Marc.

There are four possibilities.


I am thinking of a number. It is greater than 50. It is less than 80 . It is a prime number. The sum of its digits is an odd number.

Can you find all the possible numbers she could be thinking of?

Is Marc correct?
Explain your reasoning.

Marc is incorrect. There are two numbers that fit all the criteria: 61 and 67. They are both greater than 50 , less than 80 and they are both prime. Their digit sums are both odd.

Can you arrange the numbers in the circles so that each adjoining pair (pairs which are joined together) adds to


## Prime Numbers

Dive in by completing your own activity!


Tie REENTSUDES


