

Master Odd and Even Numbers to 10 A

Rationale

In this practical step, pupils will be introduced to odd and even numbers. They will use concrete apparatus to explore patterns which determine whether numbers up to 10 are odd or even and be able to recognise these from representations. They will learn if all of the concrete apparatus are paired, the number is even and if one of the concrete apparatus remains unpaired, the number is odd. Pupils will develop their learning by identifying that the pattern of odd and even numbers alternates when counting in 1s using concrete apparatus. They will also apply their understanding to zero, recognising this as an even number.



Key Stem Sentences

- All ___s are paired.
- One ___ is unpaired.
- ___ is an odd / even number.
- The pattern of numbers is ___, ___.



Key Vocabulary

- odd / even
- paired / unpaired
- pattern



Common Errors or Misconceptions

- Pupils may think that counting bears need to have matching colours to form a pair, leading to inaccurate pairing.
- Pupils may overlook the single concrete apparatus that remains unpaired, resulting in them thinking an odd number is even.



Key Representations

Counting bears



All bears are paired. 2 is an even number.



One bear is unpaired. 5 is an odd number.

Numicon



All Numicon holes are paired. 6 is an even number.



One Numicon hole is unpaired. 1 is an odd number.



Pupils will FLOURISH if they can...

- recognise that if all of the concrete apparatus are paired, the number is even.
- recognise that if one of the concrete apparatus remains unpaired, the number is odd.
- identify that zero is an even number.
- explain their understanding using verbal sentences and concrete apparatus.

