St Bernadette's Catholic Primary School

Key Instant Recall Facts

Year 5 – Summer 1

I can identify prime numbers up to 20.

By the end of this half term, children should know the following facts. The aim is for them to **recall these facts instantly**.

A **prime number** is a number with **no factors other than one and itself.**

The following numbers are **prime numbers**:

2, 3, 5, 7, 11, 13, 17, 19

A **composite number** is **divisible by a number other than 1 or itself.**

The following numbers are **composite numbers**:

4, 6, 8. 9, 10, 12, 14, 15, 16, 18, 20

The children should be able to explain how they know that a number is composite. Eg 15 is composite because it is divisible by 3 and 5.

Key Vocabulary:

Prime number
Composite number
Factor
Multiple
Product

Activity Ideas:

Activity ideas It's really important that your child uses mathematical vocabulary accurately.

Play games such as:

- Choose a number between 2 and 20. How many correct statements can your child make about this number using the vocabulary above?
- Make a set of cards for the numbers from 2 to 20. How quickly can your child sort these into prime and composite numbers? How many even prime numbers can they find? How many odd composite numbers?

- Using playing cards or number cards up to 20.

1. Shuffle the cards and deal them face down to the players and ask the players to arrange their cards into in a pile.
2. Each round consists of all the players turning over the first card in their pack in an outward motion, giving every player a fair chance of seeing the card as it's turned over.
3. When a prime is played, the first player to call out "prime" takes the card and any others that may be in the stack. If there's a tie, the pile should remain in the centre and play should continue. If the number turned over isn't a prime number, leave the cards in the centre of the table until a prime number appears and the cards are won.
4. After a player wins cards, they must shuffle them into their deck before the game can continue.
5. Play until one player has all the cards or set a time limit on the game and stop when time is up. The player with the most cards at the end of the game wins.

Challenge: I am thinking of a number greater than 10 but less than 20. It is a prime number. The sum of its digits is an even number. How many possibilities are there?