# Fizz Buzz number game – Prime Numbers

Class should count to 6, replacing any multiples of 2 with the word ‘Fizz’, and any multiples of 3 with the word ‘Buzz’. Hence class should count

1; Fizz; Buzz; Fizz; 5; Fizz Buzz

Now ask the class how they could make every number different. Perhaps they could try calling 4 ‘Fizz Fizz’? To start counting

1; Fizz; Buzz; Fizz Fizz; 5; Fizz Buzz

Ask why 5 hasn’t got a name, and lead to the class naming 5, and then, counting further to name the next numbers with no name.

|  |  |
| --- | --- |
| 2 | Fizz |
| 3 | Buzz |
| 5 | \* |
| X | \* |
| Y | \* |

Continue counting, noting the numbers which have to be given their own names. What is special about these numbers? They’re prime. What does the fact all other numbers are combinations of these words tell us about non-prime numbers? All numbers can be written as a product (multiplication) of prime numbers.

What is 72 in the name terms? Fizz Fizz Fizz Buzz Buzz

What does this tell us about which primes multiply to make 72?