

THE MAGIC OF  
PRIME NUMBERS  
(AND THEIR  
TWIN PAIRS)

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**WHEN**

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**WHO**

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**ABSTRACT**

In recent years there has been some spectacular advances in the field of prime numbers. In particular, striking progress has been made on the prime numbers gap conjectures. Classically, the conjecture posits that there are infinitely many pairs of twin prime numbers (i.e., pairs of prime numbers that differs by 2; one such twin pair is 17 and 19). More generally one can ask if there are infinitely many pairs of primes within a fixed gap  $x$ . Inspired by these recent breakthroughs, we review some fascinating properties of prime numbers and of Bungus numbers that can be introduced in mathematics classrooms at almost any level. To make the learning of these notions fun and playful, we introduce three student games.