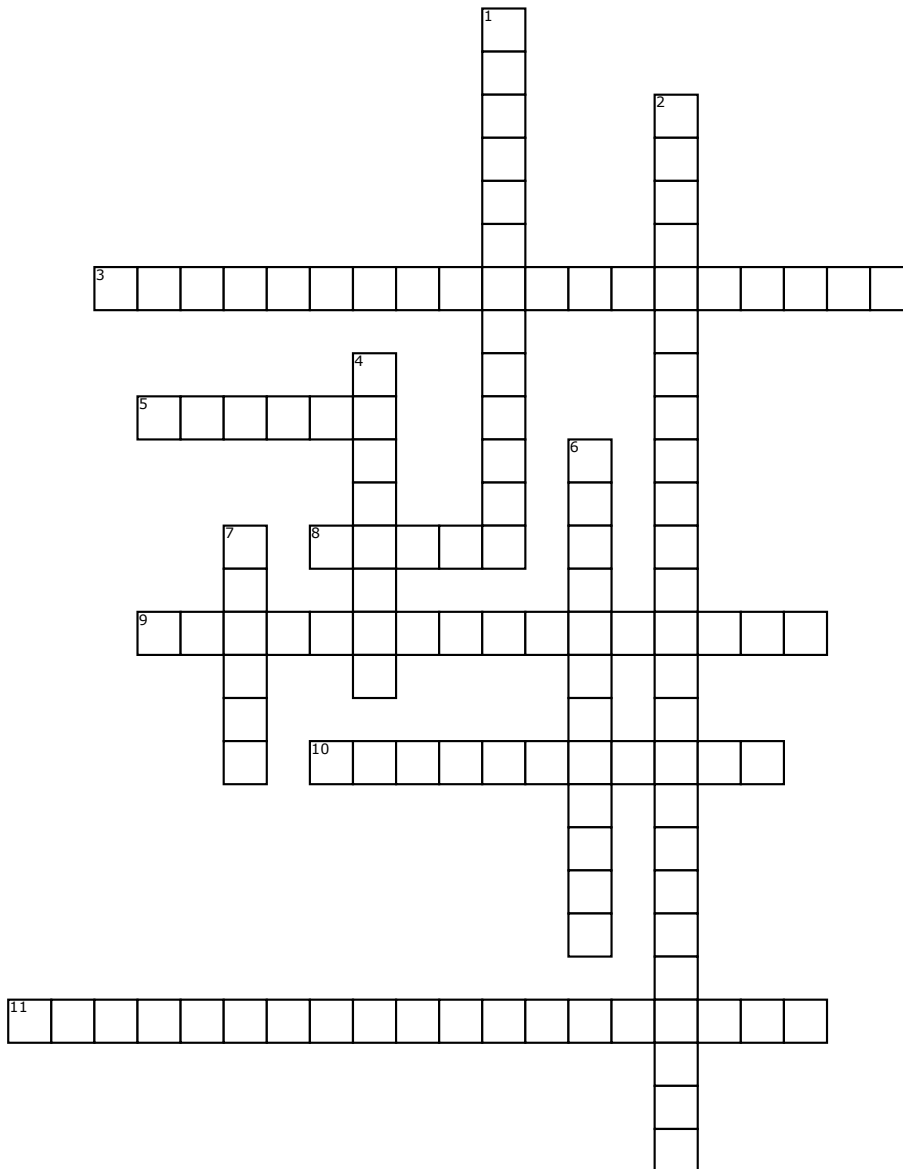


# Exponential Growth and Decay



**Across**

- 3.** a function whose value is a constant raised to the power of the argument, especially the function where the constant is e.
- 5.** Is any of a variety of J-shaped diagrams where a curve initially falls, then steeply rises above the starting point.
- 8.** the set of values that a given function can take as its argument varies.
- 9.** The addition of interest to the principal sum of a loan or deposit
- 10.** the process of reducing an amount by a consistent percentage rate over a period of time

- 11.** If the polynomial in the numerator is a lower degree than the denominator.

**Down**

- 1.** the starting value of the pattern before growth or decay is applied.
- 2.** the growth of a mathematical function
- 4.** the final value of the pattern after growth or decay is applied
- 6.** the addend by which a quantity increases (or decreases) over time.
- 7.** the set of possible values of the independent variable or variables of a function.