Edexcel AS Maths Exponentials & logarithms

Section 1: Exponential functions and logarithms

Crucial points

1. **Make sure that you know the equivalent log relationships**
   It can be difficult to develop a "feel" for logarithms. Keep the equivalent relationships $\log_a b = c \Leftrightarrow a^c = b$ firmly in mind, remembering that the base of the logarithm is also the base of the index. The value of $\log_a b$ is the answer to the question: "What power must I raise a to in order to get b?"

2. **Remember the log laws**
   Make sure that you know the laws of logarithms. They are often useful for simplifying expressions.

3. **Remember that exponentials and logarithms are inverses of each other**
   This is important in solving equations. Equations involving exponentials can be solved by taking logs of both sides, and equations involving logs can be solved using powers.