YORK ST JOHN UNIVERSITY

Student Life

Library and Learning Services Log laws Study Development Quickguide

Logarithm Laws

- 1. $\log_a(b) = c$ whenever $a^c = b$.
- 2. $\log_a(b) + \log_a(c) = \log_a(b \times c)$
- 3. $\log_a(b) \log_a(c) = \log_a\left(\frac{b}{c}\right)$
- 4. $c \log_a(b) = \log_a(b^c)$
- 5. $\log_{a}(a) = 1$
- 6. $\log_{a}(1) = 0$
- 7. $a^{\log_a(b)} = b$
- 8. $\log_a(a^b) = b$
- 9. $\ln(e^x) = x$

Support: Study Development offers workshops, short courses, 1 to 1 and small group tutorials.

- Join a tutorial or workshop on the <u>Study Development tutorial and workshop webpage</u> or search 'YSJ study development tutorials.'
- Access our Study Success resources on the <u>Study Success webpage</u> or search 'YSJ study success.'