

**AQA Computer Science A-Level**  
**4.5.4 Binary number system**  
Extra resources



Adding in binary - Khan Academy

<https://www.youtube.com/watch?v=RgkIPQ8rbkg>

Multiplying in binary - Khan Academy

<https://www.youtube.com/watch?v=xHWKYFhhtJQ>

Binary: Pluses & Minuses (Why We Use Two's Complement) - Computerphile

<https://www.youtube.com/watch?v=IKTsv6iVxV4>

Binary Fractions and Floating Point - Binary Tutorial

<https://ryanstutorials.net/binary-tutorial/binary-floating-point.php>

Floating Point Numbers - Computerphile

<https://www.youtube.com/watch?v=PZRI1lfStY0>

Normalised Floating Point Binary Fractions - Kevin Drumm

<https://www.youtube.com/watch?v=qlgJJo-wl74>

Binary Addition & Overflow - Computerphile

<https://www.youtube.com/watch?v=WN8i5cwjkSE>

