

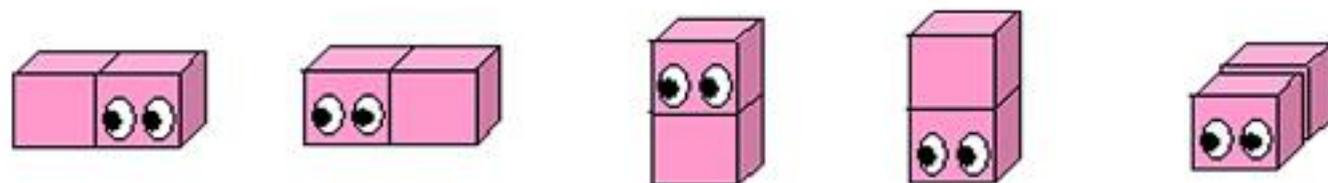


# Wag Worms



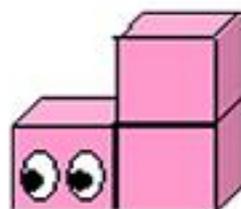
**When intergalactic Wag Worms are born they look just like a cube.**

**Each year they grow another cube in any direction (except on their faces of course). So a two-year-old Wag Worm might look like any of these.**



**The next year it grows another cube onto its second cube (not its face cube).**

**So one shape a three-year-old Worm can be is this:**



**Find all the shapes that three-year-old Wag Worms can be.**

Thousands more problems can be found on the NRICH Maths website:

<http://nrich.maths.org>