



# 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:

[www.nrich.maths.org](http://www.nrich.maths.org)