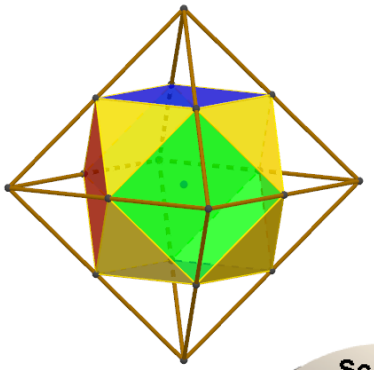
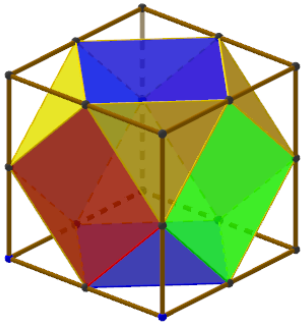
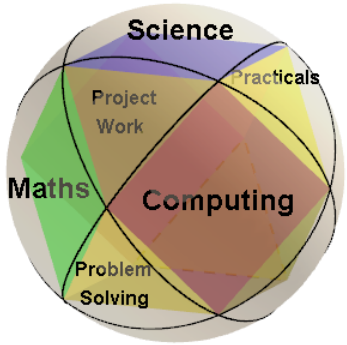
A **`Skilful School'** integrates the STEM-related subjects of the curriculum through inspiring inter-disciplinary group projects (and other means) to provide practical activity and project work which develop students' problem-solving and other 21st C personal skills.
For short we call this strategy `**iSTEM+**'. This is read as `*integrated STEM and more'*.







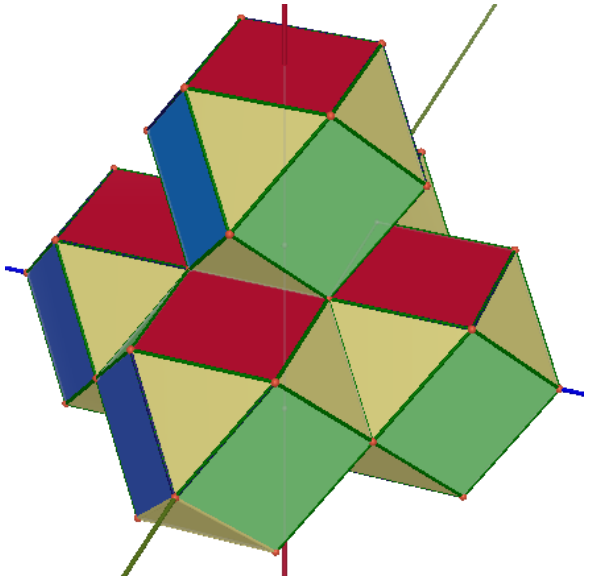
The basic solid we have chosen is called the `cuboctohedron', which can be made by cutting the corners off either a cube or an octahedron. It was a favourite shape of Buckminster Fuller who called it `dymaxion' and also `vector equilibrium'. The net of this solid can be cut out, folded and glued.

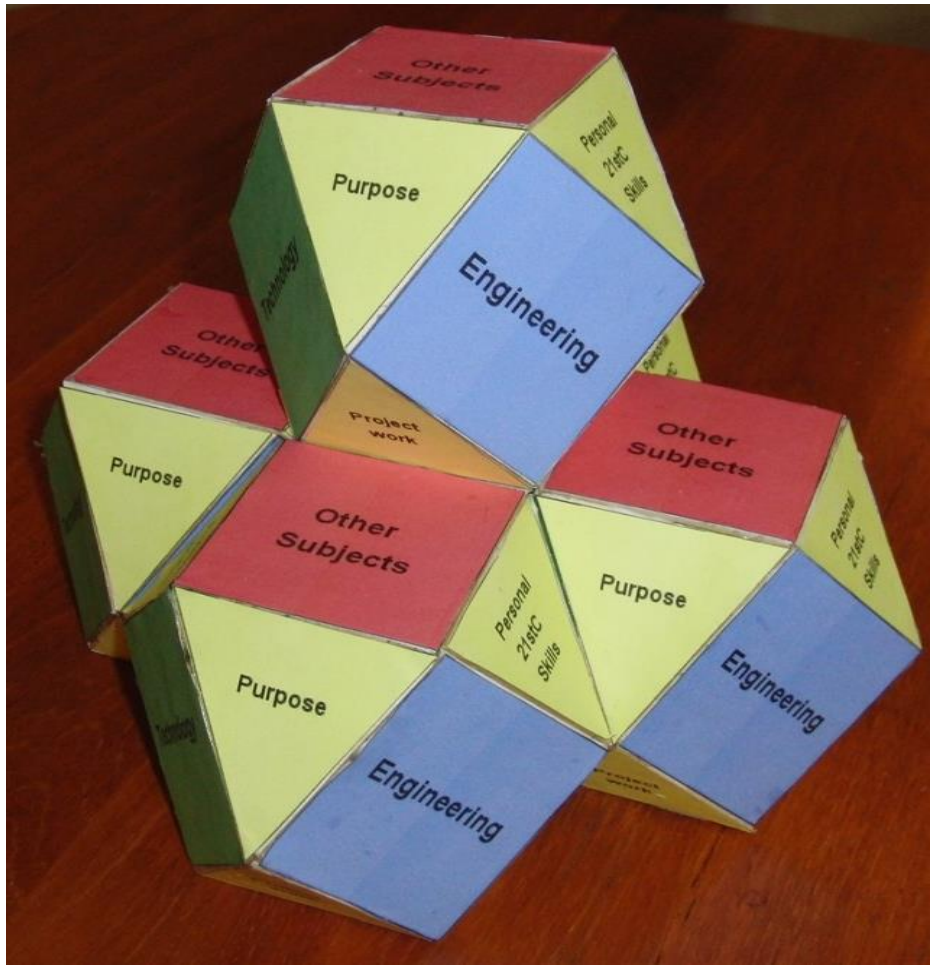
Integrated **T** **S** **E** **M** and more

- subjects e.g. Computing, Art & Geography
- skills e.g. collaboration and communication
- engagement e.g. employers and families

In order to assist schools, academies and colleges to develop as `Skilful Schools', they will need support in implementing an `iSTEM+' strategy. We propose that this is provided through local **cluster** of schools working with local employers.

An **`iSTEM+ cluster'** consists of a small group of primary and secondary schools or academies working together with a post-16 provider of Further Education and a small group of local employers to develop their own local approach to the iSTEM+ model. They are each mutually supportive and share resources, staff and vision.





Such local clusters can work together in a region to build up a self-supporting **`iSTEM+ network'** which can grow organically.

The next page can be printed or pasted onto an A4 sheet of card, and the 14 shapes cut out.
They can then be pasted together edge to edge using Copydex to make the cuboctahedron model for a Skilful School.

Mathematics	Technology
Science	Engineering
Computing	Other Subjects