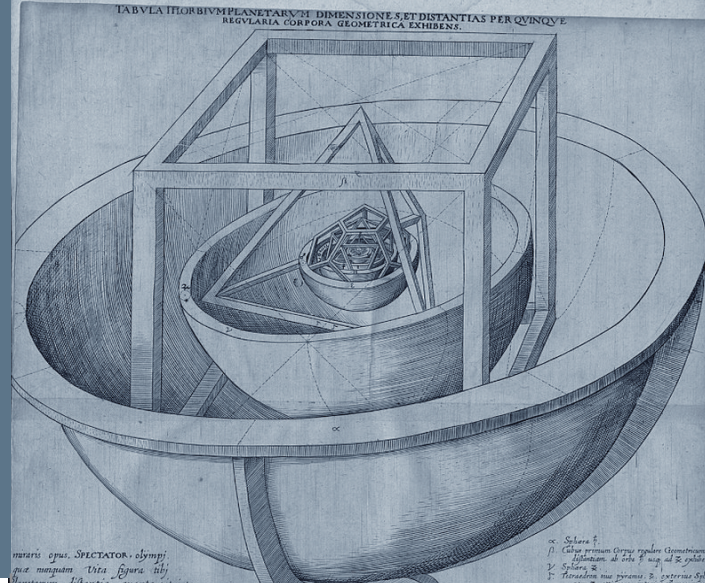


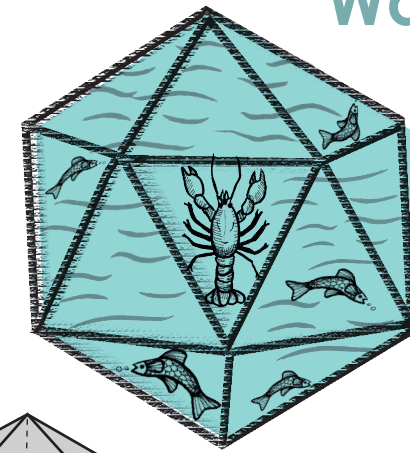


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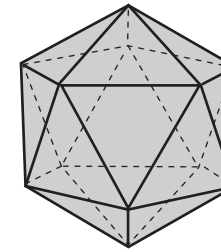
# My Box Of STEAM Mathematics SOLID FIGURES



**Kepler's Platonic solid model  
of the Solar system**  
Johannes Kepler (1571 – 1630)  
was a German astronomer e mathematician.



Water



**Icosahedron**  
Twenty faces



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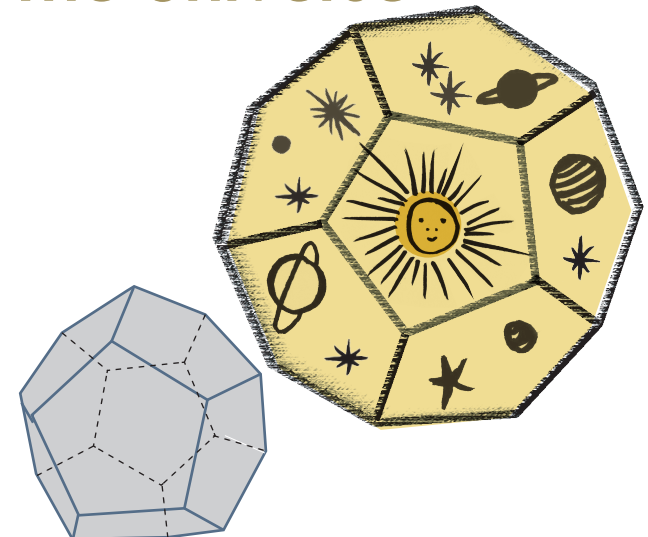
Mathematics "SOLID FIGURES"  
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God  
always  
geometrizes!

**PLATO**



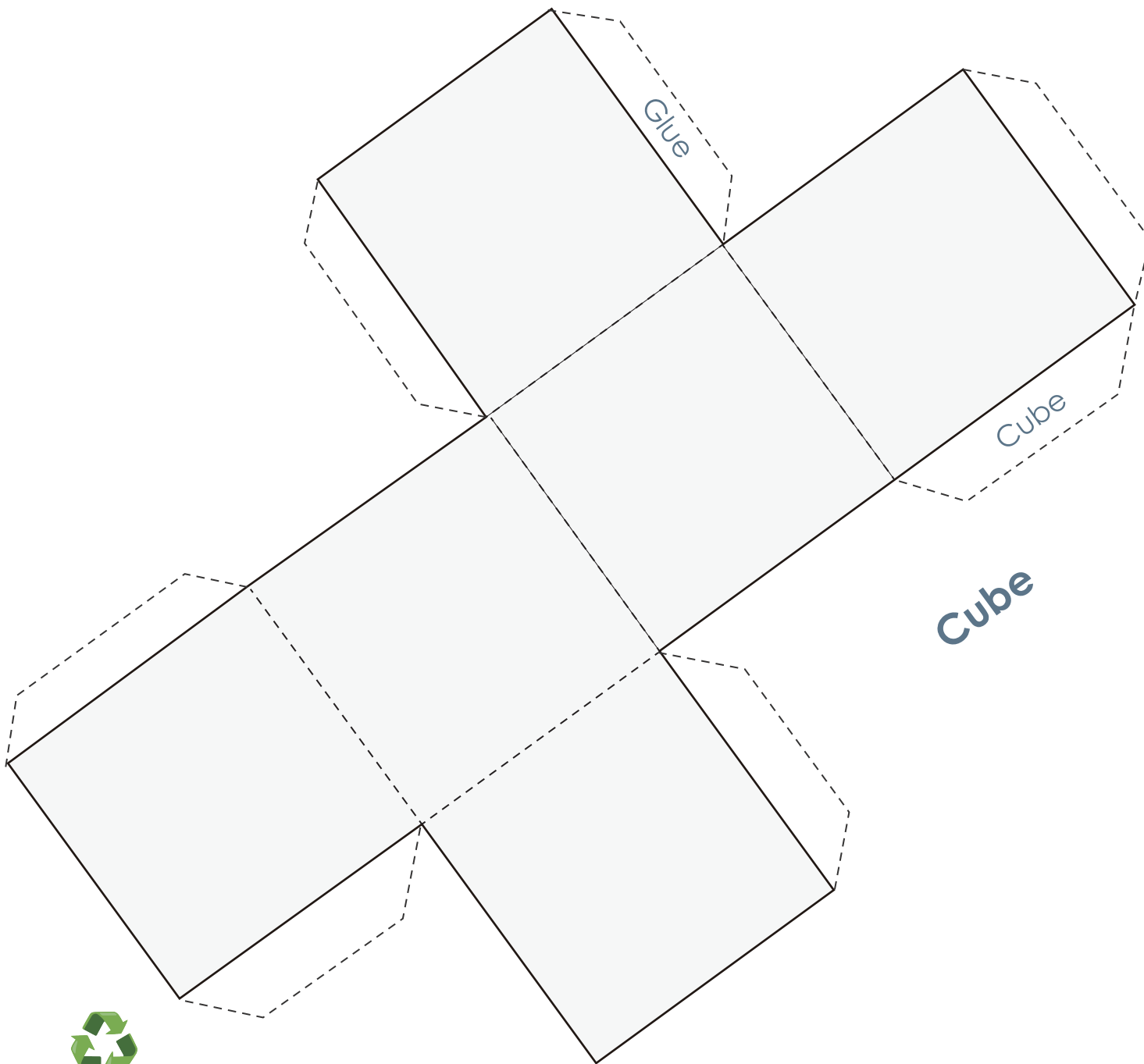
**The Universe**



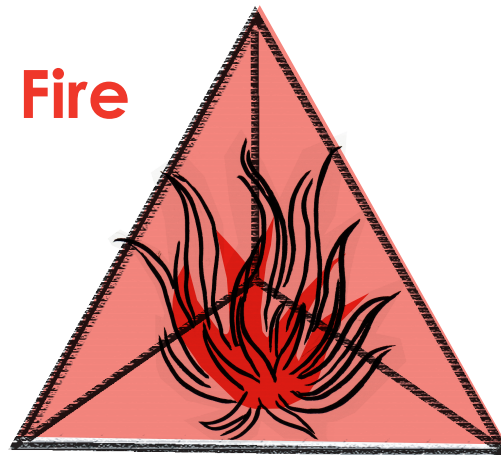
**Dodecahedron**  
Twelve faces

Recyclable

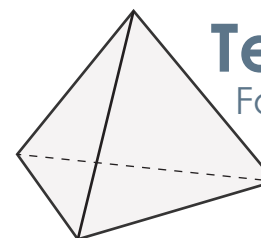




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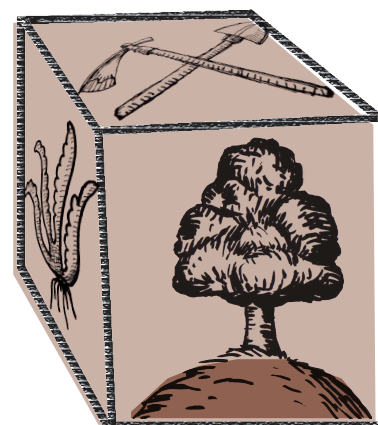


Fire

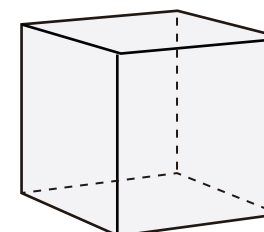


**Tetrahedron**

Four faces



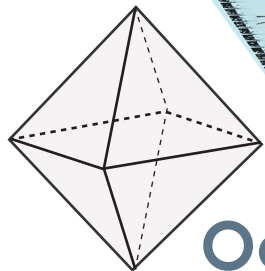
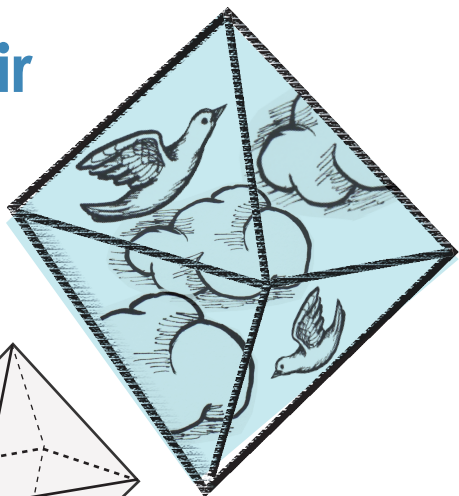
Earth



**Cube**

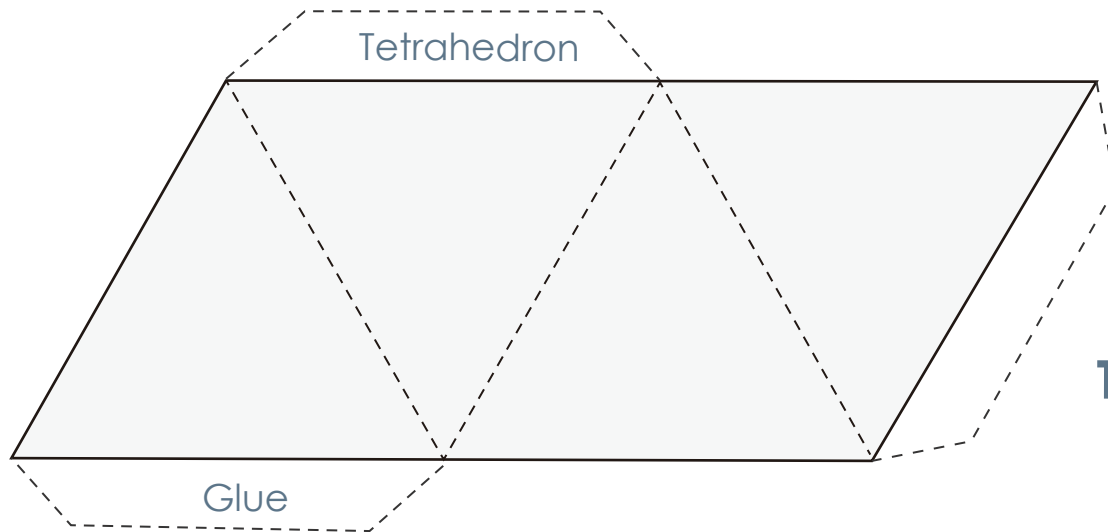
Six faces

Air



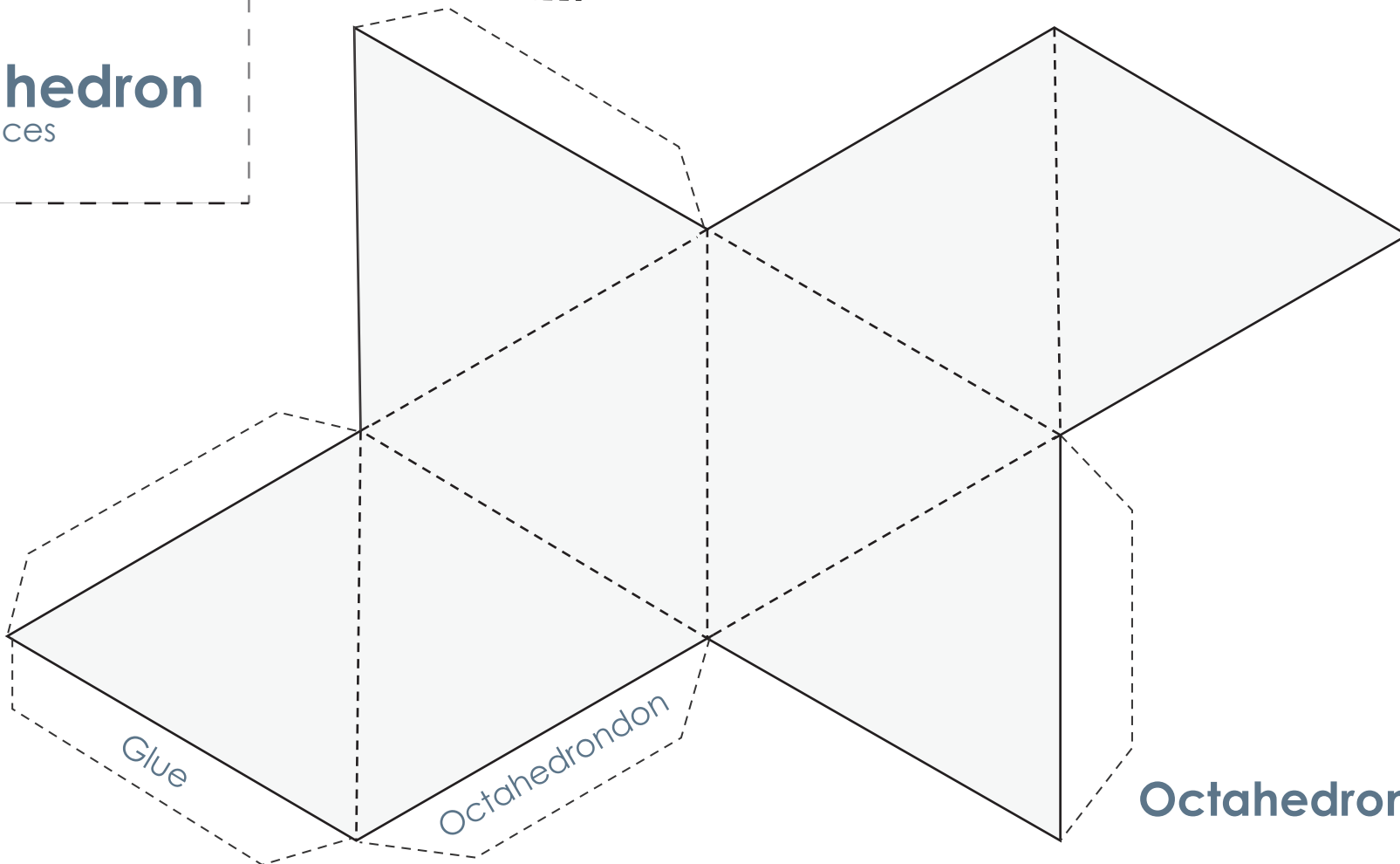
**Octahedron**  
Eight faces

Tetrahedron



**Tetrahedron**

Glue



Glue

Octahedron

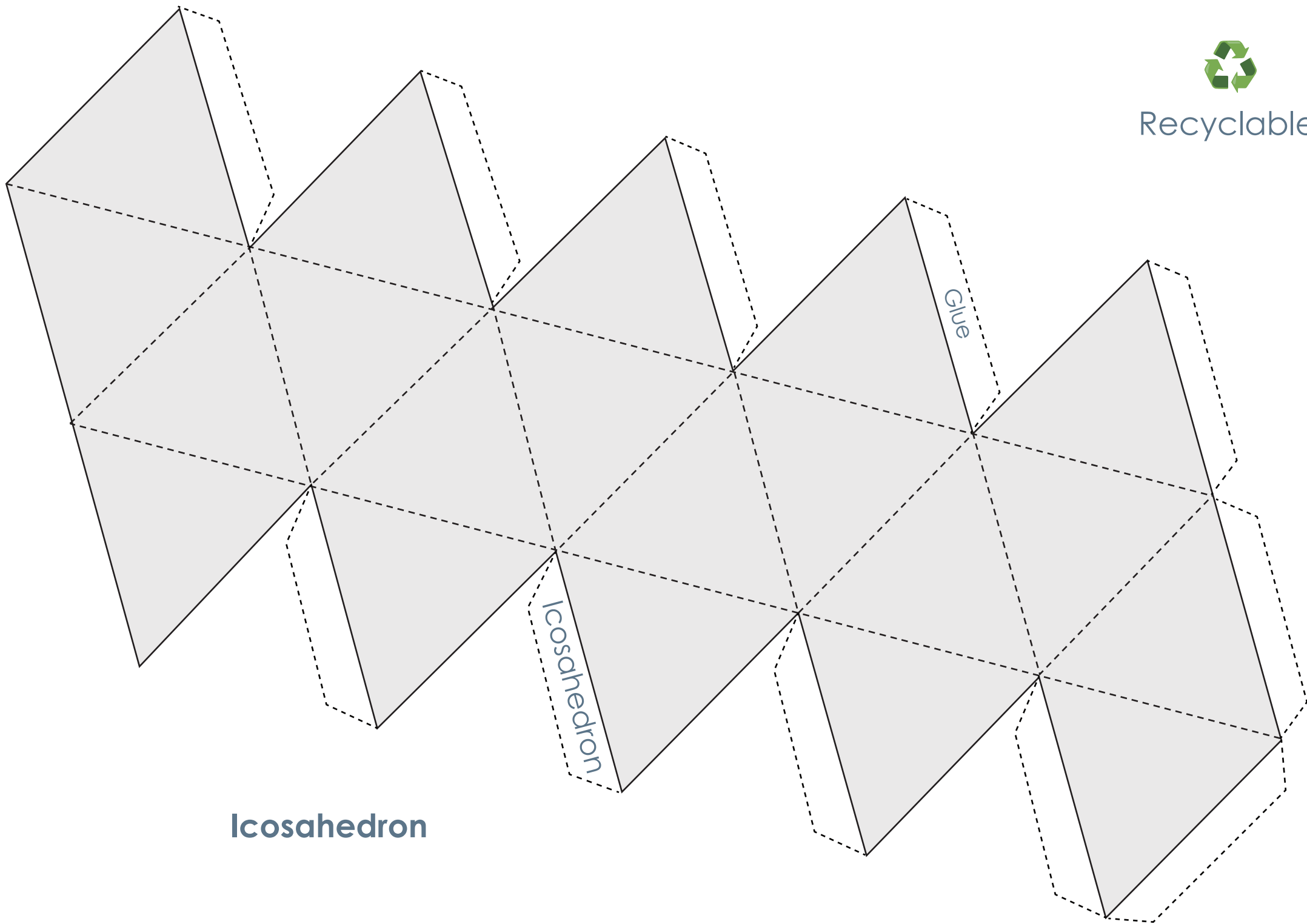
**Octahedron**



Recyclable



Recyclable



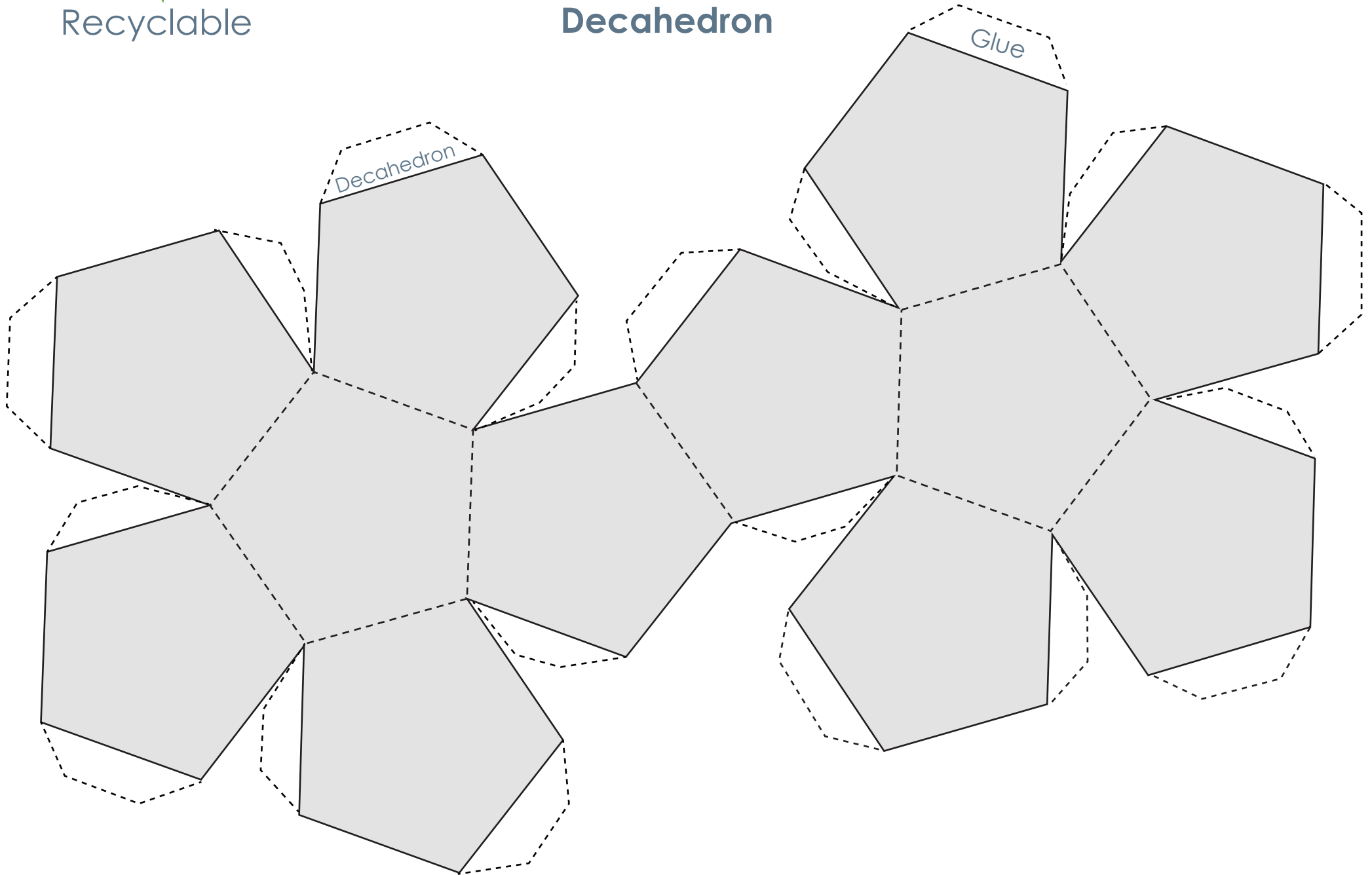
Icosahedron





Recyclable

## Decahedron



## PLATONIC SOLIDS

**-Everything man creates, nature has imained before-**

It has been hidden in unthinkable places and has always invited man to play the greatest treasure hunt.

Pyrite for example, crystallizing is capable of creating geometric shapes resembling the hexahedron, octahedron, an irregular dodecahedron or even the pentadodecahedron.

Humans were fascinated by it and began to ask questions, and because nature seemed to be unresponsive in a direct way, they began to search for answers.

This was done by some men who lived in Scotland in the Neolithic period (4,000 years ago) who had carved small spheres resembling these solids, the Romans did it, and illustrious men such as Pythagoras, and many, many years later among many others, Leonardo da Vinci.

Plato, a Greek philosopher and writer who lived in the 4th century BC, did so.

Plato took up nature's challenge and looked at these solids and thought they could explain the workings of the Cosmos, matching each polyhedron to the four elements: The cube was the earth, solid and immobile.

The flames of fire rising upward were the tetrahedron (i.e., a pyramid).

The solid composed of two pyramids is the octahedron and corresponded to air.

The icosahedron (made up of twenty triangles!) was water because water is changeable, iridescent it can move quickly and thus cover the entire surface of the earth.

The dodecahedron, on the other hand, represents The Universe.

These eternal, perfect forms represent the harmony in which we should live.

Others after Plato continued to study these solids, discovering an extraordinary thing that geometry, art and science are interconnected.



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