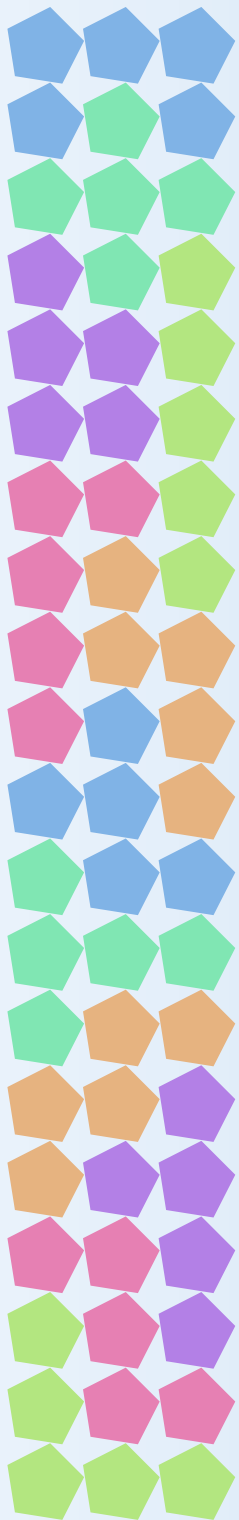




# Polyhedra and Dodecahedron Day

IPST, Bangkok  
25 July 2012

Dr. Vince Matsko  
Illinois Mathematics and Science  
Academy



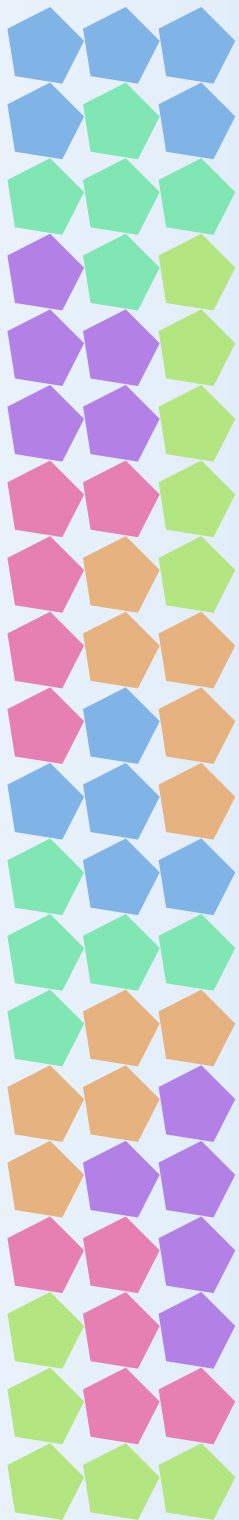
## Objectives



This is a hands-on workshop on polyhedra.

You will learn enough about polyhedra to be able to successfully plan and carry out activities for Dodecahedron Day, as well as involve polyhedra in other classroom activities.

Ideas learned today can be adapted to students at many different levels.

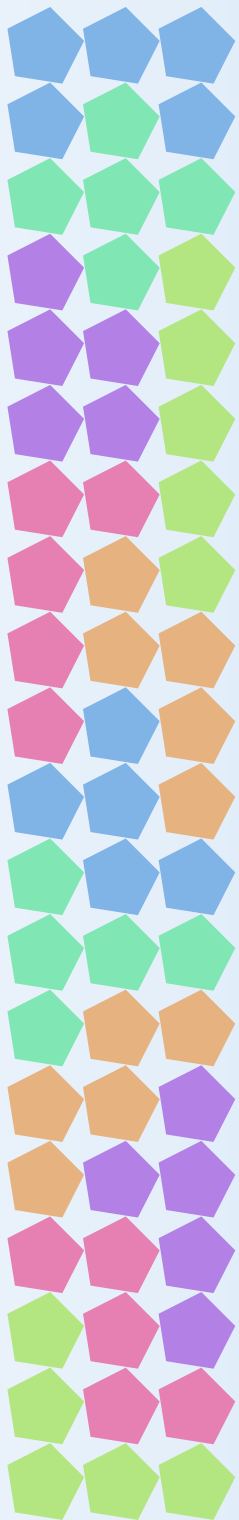


## The Platonic Solids



The *Platonic solids* are the building blocks of a study of polyhedra.

We will begin by defining the Platonic solids and seeing in different ways just how many there are.

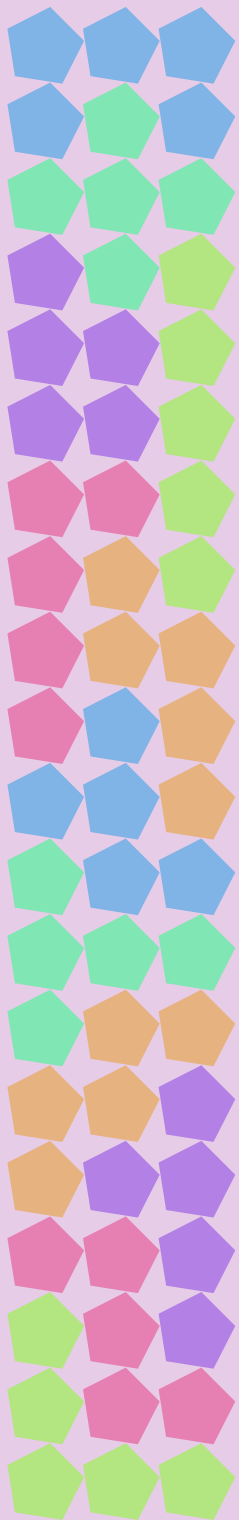


## Stellations

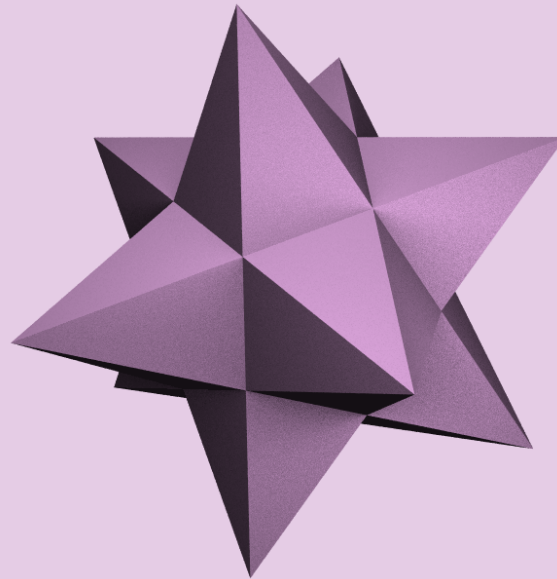
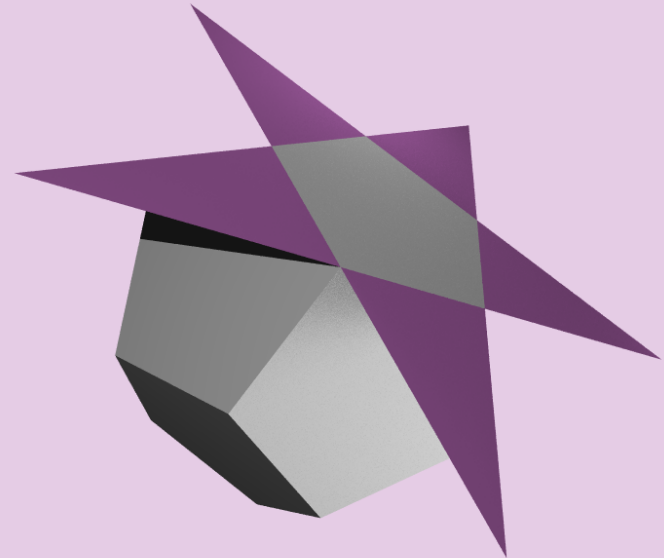
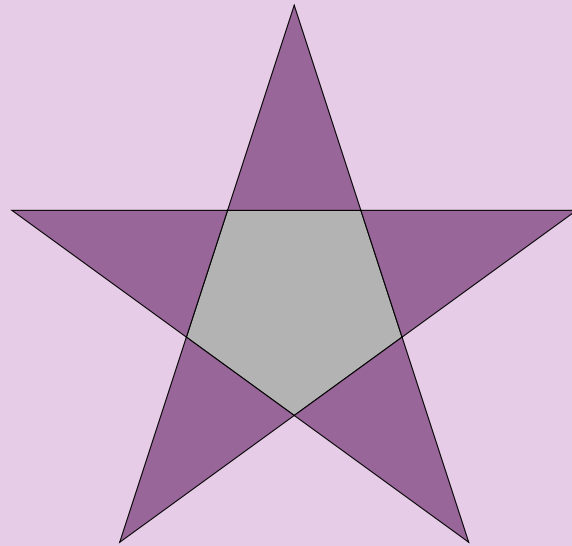


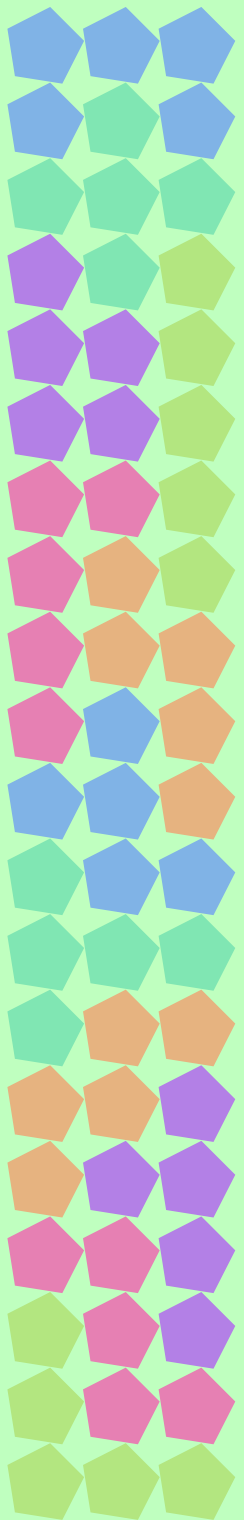
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We will now look at stellations of the dodecahedron.

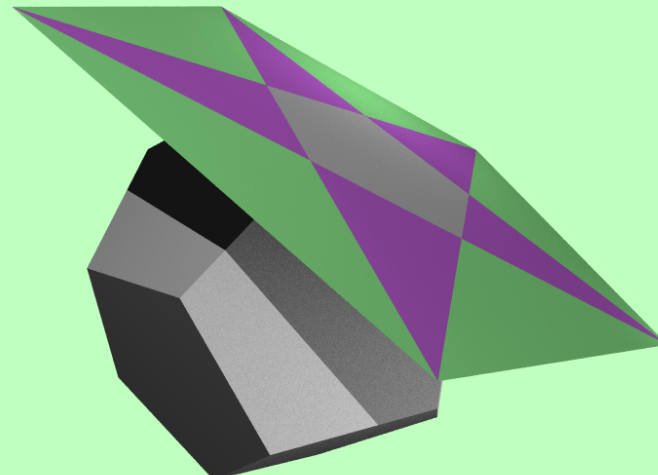
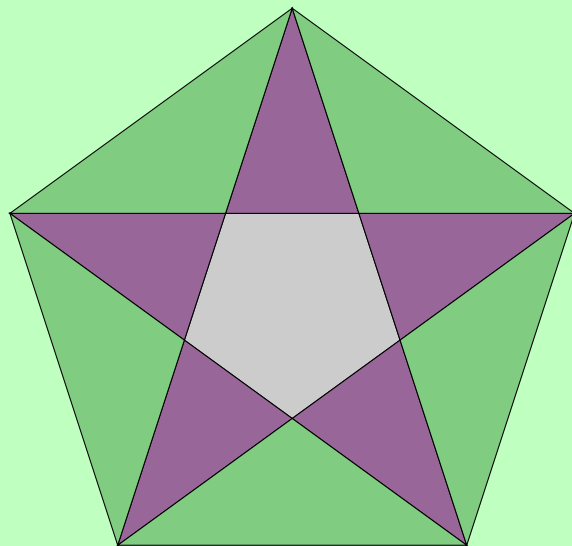


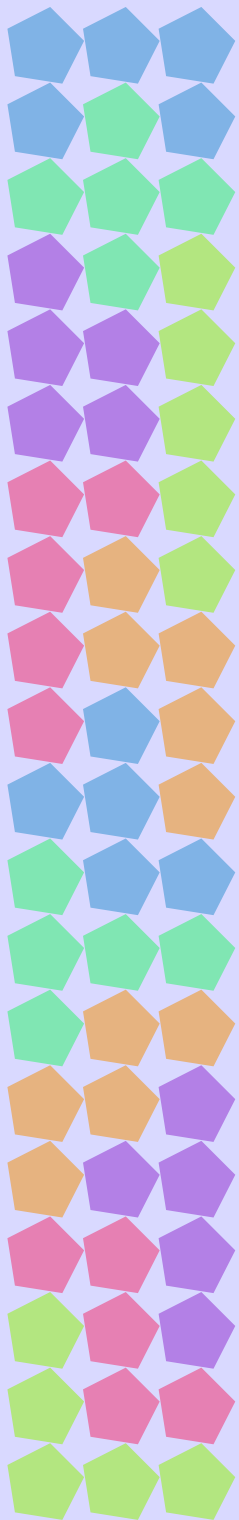
# The Small Stellated Dodecahedron





# The Great Dodecahedron





# The Great Stellated Dodecahedron

