

1135-Q5-1571      **Judith Coviington\***, judith.covington@lsus.edu. *Creating and Justifying Platonic Solids.*

How many platonic solids are there? I expected my MTC to immediately say five, but that was not the case. I will share an activity that I used with my MTC that allowed the teachers to not only leave knowing that there are five platonic solids, but also WHY there were only five. In this session I used the commercially available polydrons to help the teachers visualize what was happening when they joined different polygons to create solids.

In this session I will quickly share some of the basic information my teachers needed to formulate before they began this activity. They then used the polydron shapes along with the definition of a platonic solid to create as many platonic solids as they could. I then asked if they thought they had created all and if they could give a convincing argument that they had all. I will share some of these discussions along with the argument that there are only five platonic solids. (Received September 23, 2017)