**Common Core:**
The Platonic Solids are not specifically found in the Common Core, however this activity is a beneficial precursor to some of the standards.

Describe the two-dimensional figures that result from slicing three-dimensional figures. (7.G.A.3)

Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems. (6.G.A.4)

**Objectives:**
1) Students will learn more about Platonic Solids.

2) Students will use nets to create the Platonic Solids.

**Materials:**
- Computer, internet, and projector (for watching a YouTube video)
- Platonic nets
- Scissors
- Tape
- Crayons/markers/colored pencils
- String and hangers (optional)

**Procedure:**
1) Have the students watch parts 1 (length 8:33) & 2 (length 9:15) of the Platonic Solids video.
   - Part 1: [https://www.youtube.com/watch?v=voUVDaGFtho](https://www.youtube.com/watch?v=voUVDaGFtho)
   - Part 2: [https://www.youtube.com/watch?v=BsaOP5NMccM](https://www.youtube.com/watch?v=BsaOP5NMccM)

2) Introduce Nets as flat (2D) shapes that can be folded to create a 3D shapes. Two examples that you could show them are the nets of a cylinder, and a square-based pyramid.

![Example of nets for a cylinder and a square-based pyramid]

4) Students can decorate their nets by drawing pictures or designs on them. (Platonic nets are in the student workbooks.)
5) Students cut out the nets, fold them, and tape them shut.

6) Optional: Students can use the string to connect their Platonic Solids to a hanger, creating a mobile.