

## Bishop Leibold Receives over \$46,000 in STEM Grants

On April 3, thanks to the hard work of Mrs. Beth Allaire, Bishop Leibold School was awarded two grants from the Ohio Department of Education and Workforce:

- The Nonpublic Coding Robots Grant - \$8,857.98
- Nonpublic STEM Grant \$34,536.48

The **Coding Robots Grant** will provide robots across all grade levels. Our K-1 students will be able to use Bee-Bots to program the robots and see them run their programs to troubleshoot and run successful paths. Our grade 2-4 students will use Ozobots to program and run the robots through multiple challenges. Our grade 5-8 students will use Sphero robots to program and operate the robots through student-created challenges tying directly into Science and Social Studies content standards. We will also be able to acquire additional Lego Spike Prime programming kits to engage more students in grades 4-8. Resources purchased with this grant will help students become comfortable with block programming as they engage at each grade level. They will apply logic, geometry, cause and effect, mathematics, and many other skills while using creativity to problem solve various scenarios. Purchases from this scholarship will expose our students to fundamentals of coding and spark interest in potential future career paths.



The **Nonpublic STEM Grant** will provide our students in grades 3-8 with an enhanced Makerspace area. The purchase of 30 iPads will allow our students to create using stop motion as well as use block programming to operate Ozobots, Spheros, and Lego Spike Prime kits. We also will use the funds to purchase state of the art 3D printers which will allow our students to create original designs in Tinkercad and print off multi-color creations. The purchase of Cricut supplies and subscriptions will allow our students to create graphic designs and print them on various mediums. This funding will allow us to support our STEM programming and update our technology in this area.



Additionally, Mrs. Patti was awarded a **STEM Aspire Microgrant** totaling \$2,798 from the Dayton Regional STEM Center for her project titled *Coding with Tello Drones*. Mrs. Patti, who recently graduated with a Masters in Educational Technology from Miami University, is a Dayton Regional STEM Center fellow which made her project eligible for this grant. Students will be able to use Tello Drones which are tiny drones about the size of plate. Students can program them using block coding to do different things and change their flight path. This grant will allow us to purchase five drones and iPads to run them.