

## **Program Outline:**

### **Tech Start - Foundations in Technology**

HoneZone **Tech Start** sessions are designed to empower and educate students for 21<sup>st</sup> century by providing opportunities to create and solve novel problems, communicate, collaborate and create new products and processes, while encouraging students to explore different genres of creative expression and form.

- Students understand the importance of “Creating” technology rather than “using” technology
- Students learn role of technology in 21<sup>st</sup> century by exploring interactive videos, hands-on projects.
- Students understand basics of how computers, communication, Internet, mobile devices work
- Students understand the concepts of Cloud computing and fundamentals of cloud based offerings in digital world with real-world applications
- Students learn foundations of Mobile Technology by understanding how the innovations in Mobile technology changed today’s world
- Students learn Artificial Intelligence fundamentals by understanding concepts of Robots and Computers.
- Students understand technology behind iPhone, Android phones and learns App development fundamentals
- Students participate in “My idea” discovery workshop and learn fundamentals of technology innovation
- Students create real-world interactive, technology projects using easy to learn programming language.
- Students learn animation, game design incorporating music, movements using Scratch programming

- Students apply Mathematical concepts and learn to solve real-world problems throughout this program.
- Students develop logical thinking, approach strategies and weigh-in pros and cons of solving problems
- Students understand ethical use of software and understand importance of safe sharing in digital world.
- Students participate in Technology contests and win prizes
- Students listen to guest speakers from STEM industry

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