

# The Magic of Radio Waves



This year's technology focused Kids Camp has a radio theme. The kids will learn about radio waves and the basics of radio technology which is the basis for all wireless communications whether it be AM or FM radio, TV, Cell phone, or Wi-Fi.

Participants will build a Crystal AM Radio that works without any power source but that's only the beginning. They will learn about basic electronic components (resistors, capacitors, transistors etc..) while building a single transistor audio amplifier, "dead bug style".

There is a project to build a morse code practice oscillator to send secret messages to each other. The history of which dating back to the mid-1840s with the birth of wired communication and eventually wireless communication.

This Kid Camp is a mixture of fun hands-on projects with discussions as to how it all works. The target age group is 12- to 16-year-olds with a limited class size of 9 individuals. The date is Monday, June 22<sup>nd</sup> through Friday, the 26<sup>th</sup>. Camp starts at 9:00am with lunch from 11:00 to 11:30am. The day ends at 2:00pm. Participants are responsible for their own lunch except for Friday which will be a pizza lunch provided by the museum. The cost is \$225.00 per student. Questions can be directed to Bob Ripley and [mrattwv@gmail.com](mailto:mrattwv@gmail.com).