**Explore Basic Waveforms Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. Launch Audacity and Choose File🡪New. Save this project to your zip drive under the file name listed at the bottom so that you can use it for later activities below.
2. Generate 2 seconds of a sine wave, a square wave, and a sawtooth wave on separate tracks. The process is as follows:

* Create a new audio track (Tracks🡪Add New🡪 Audio Track).
* Choose Generate 🡪 Tone . . ., and select “sine wave” from the pop-up menu.
* In the dialog box, choose a desired frequency (for example, 440 Hz), amplitude (1.0 is maximum, choose something like 0.5), and duration.
* Repeat these steps for square wave and sawtooth wave.

1. Adjust the volume on your computer so it is not very loud; you can always turn it up later. Listen to each of them in turn by clicking on the “solo” button for the track you want to hear.
2. Click on the zoom tool and zoom in until you can see the actual waveforms. Describe the sound for each and the visual wave you see.

**Sine Wave:**

How does it sound?

How does it look?

**Square Wave:**

How does it sound?

How does it look?

**Sawtooth wave:**

How does it sound?

How does it look?

1. When finished save these tracks as **waveforms activity 1**.
2. Show me the three tracks to receive credit.
3. Feel free to play around with audacity to get comfortable with the basic controls.