Created by emalick@hanover.k12.va.us

Beep Speak!

1. Go to the **Sound** area of your Snap Controls Panel.

Motion | Control
Looks | Sensing
Sound | Operators
Pen | Variables

2. Select the Finch Buzzer operations brick below.

Finch Buzzer (440) Hz (500) ms
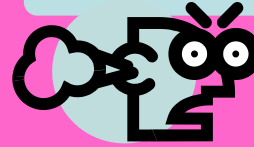Finch Buzz+Wait (440) Hz (500) ms

Finch Buzzer Hz ms:
Buzzer with a sound of the frequency specified for the time specified (milliseconds). Range is 20 to 20,000 for frequency.
Finch Buzz+Wait Hz ms:
Same as Finch Buzzer, but also causes a halt for the amount of time specified.

http://www.finchrobot.com/software/snap

3. Experiment with the different Hertz and ms controls!

Note: The higher ranges of Hz can cause discomfort.

4. **Extension Task:** Can you identify the beginning of the song played from the code segment below and complete the song using the Note chart to the left?

Note	Hz
A	440
B	494
C	262
D	294
E	330
F	349
G	392

Why use **Hz** values to generate sounds?

The human ear has an eardrum which vibrates at a frequency between 20 and 20,000 Hz

```
when space key pressed
Finch Buzzer (330) Hz (500) ms
wait (1) secs
Finch Buzzer (294) Hz (500) ms
wait (1) secs
Finch Buzzer (262) Hz (500) ms
wait (1) secs
Finch Buzzer (294) Hz (500) ms
wait (1) secs
Finch Buzzer (330) Hz (500) ms
wait (1) secs
Finch Buzzer (330) Hz (500) ms
wait (1) secs
Finch Buzzer (330) Hz (500) ms
wait (1) secs
```

Make A Card   1. Fold the card in half.   2. Put glue on the back.   3. Cut along the dashed line.