

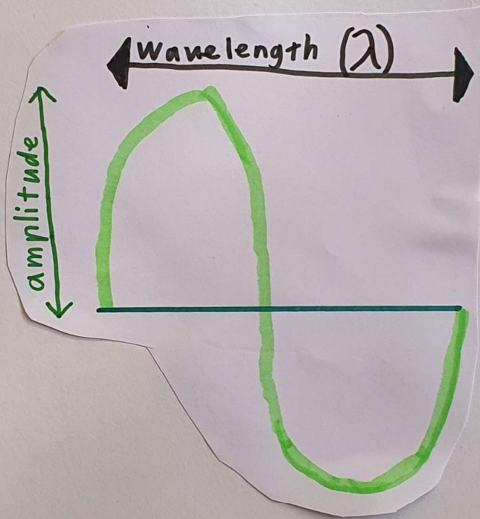
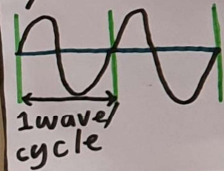
# SOUND

# WAVES

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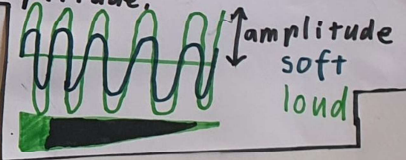
## HERTZ

Hertz are the amount of cycles per second. The less Hertz there are, the lower the sound. If there are more Hertz, the sound will be higher. A human ear can hear sounds with between 20 and 20,000 Hertz.



## LOUD OR SOFT

If a wave is tall, it will be loud. If it's short, it will be soft. The difference between a wave's middle and end is an amplitude.



## WAVES TRAVELING

Sound waves travel by colliding into molecules, which collide into other molecules, and so on, but get fainter as it goes. You can't hear in space because there are no molecules. It's called a vacuum.

## SPEED OF SOUND

The speed of sound varies according to what surface it's going through and the heat/temperature. In dry air at 20° Celsius, it is 343 miles per second, while at 20° Celsius through glass it is 4540 miles per second.

## BIBLIOGRAPHY

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