

Week 18 Viewing Guide
Science & Technology of Music

Name _____

Science of Music

1. A sound wave is caused by _____.

2. What are the definitions of the following sound wave terms:

Wavelength: _____

Amplitude: _____

Frequency: _____

3. Frequency relates to what musical term? _____

4. The volume of music is measured by _____.

DECIBEL SCALE OF COMMON SOUNDS

Noise Source	Decibel Level	Noise Effect
Breathing	10	none
Vacuum Cleaner	70	Annoying
Diesel Truck/Food Blender	90	Hearing Damage (8hrs)
Thunder/Live Rock Music	120	Human Pain Threshold
Jet Takeoff (close)	150	Eardrum rupture

-Courtesy of Oregon Museum Science of Industry

Music Technology

1. The first electronic instrument created was called a

_____.

2. In 1948, this type of music was the first mix of recorded sounds.

3. In 1964, this type of synthesizer produced the first complete electronic music album.

4. What does lossy file mean? _____

5. What audio file types provide the best quality for recording?

6. What does DRM stand for? _____