

WAVE REVIEW QUESTIONS

1. A node is a result of this type of interference:	Destructive
2. A 3D picture made from coherent light:	hologram
3. The effect whereby a moving object produces a change in pitch	h: Doppler Effect
4. Defined as the number of waves vibrating per second:	Wave speed frequency
5. The type of wave that can travel in a vacuum:	Electromagnetic
6. The mathematical relationship between frequency and period:	Inverse
7. The musical term for frequency:	Pitch
8. A measure of the maximum height of a wave:	Amplitude
9. The units of measure in the metric system for frequency:	Hertz (Cyc/sec)
10. The length of time for one wave to pass:	Period
11. The type of wave that describes sound:	longitudinal
12. The length of a wave measured in meters:	1
13. Musical term for the doubling of frequency:	Octave
14. The interference of 2 waves close in frequency:	Beats
15. A logarithmic scale for measuring sound intensity:	Decibel
16. The longest wave that can fit into an instrument: +unda	
17. The length of the wave that produced resonance in SOS lab:	Quarter) L= 1/4 n/1 = 1/4/
18. Ratio of speed of aircraft to SOS in air:	Mach#
19. The amplification of a standing wave:	Kesonance
20. The type of wave that travel around the world:	SEASON AM Kadio
21. A type of wave that is dangerous to your health:	4E then UV, x ray, gamme
22. The length of the 2 nd harmonic that forms in string instrumen	nt: Water one /
23. As tension in a string increases, frequency will	
24. As frequency in a wind instrument increases, wavelength will	l
25. Give one example each of good and bad resonance: Bad - earth quake / wind damage (Tacoma Narrows), microwave	even,
26. List 4 of each of the following: ways to polarize fight	
4 Polarize Light How laser light is different from	
· Selective absorption · Scattering: (Blue Skies) Uses of lasers, doppler, polari	ization - Medicine/Dentistry Surgery Idiagnostic
· Reflection · alare	- Info processing. CD's, DVD's, Checkout scalle
Double Ketraction (bire systems)	all consister memory
NI aschanget C	target designation, weap
- SONAR TOTALIZATION	- Holograms
- Boots - Sunglasses - Animatron - LCD's - Animal Navigation - Stress Analysis - many facturing	
- Stress Analy SIS - many tacturing	