Name:	Date:	Per:
<u>Mechanical</u>	Waves Escape Room	
Go to the following website: Waves Part 1: Mechan	nical Waves	
Click Begin and follow directions to complete the ir	nvestigation.	
Answer the following questions from the simulation	n using blue font.	
1. What causes the waves to form?		
2. In mode, the wave is continuous.		
3. The green beads move		
4. The distance between peaks (wavelength)	as the frequency incr	eases.
5. Increasing the amplitude, increases the	·	
From the video:		
6. What do waves transport from one place to anot	ther?	
7. What are the two types of waves?		
8. Sound, earthquakes, and waves in water are all e	examples of	waves.
9. Concerning waves, what is a medium?		
10. True or False: All mechanical waves require a m	edium.	
11. Can sound travel in space, where there is no ma	atter?	
12. What starts a mechanical wave?		
13. True or False: The particles of a wave travel long	g distances.	
14. True or False: Waves carry energy.		
15. True or False: Waves can carry energy very long	distances.	
16. What is the code word?		
17. From question #4, what is the measurement of	the wavelength of the wave?	
18. From question #5, what is the measurement of	the amplitude of the wave?	
19. From question #6, which wave has the highest	frequency?	
20. What is the code?		
21. From question #1, what does this wave carry?		
22. From question #2, what is causing this wave?		
23. From question #3, what is the medium of this w	vave?	

24. From question #4, which wave has the highest frequency?

- 25. From question #5, which wave has the larger wavelength?
- 26. From question #6, which wave has the higher amplitude?
- 27. What is the code?
- 28. From question #1, what causes sound waves?
- 29. From question #2, what happens to the air particles as the sound wave travels through them?
- 30. From question #3, how does increasing the frequency of the wave affect the pitch of the sound?
- 31. From question #4, how does increasing the amplitude of the wave affect the pitch of the sound?
- 32. From question #6, how does increasing the amplitude of the wave affect the volume (loudness) of the sound?
- 33. What is the code?
- 34. Paste a screenshot of your signature page below.