

**★ ANSWER ALL QUESTIONS IN COMPLETE SENTENCES ON YOUR OWN PAPER! (Not on this sheet, PLEASE!)**  
*Don't pay too much attention to all the equations!*  
*DO pay close attention to all the concepts!*

Video Questions: Resonance

1. What is the definition of "Resonance" according to the video?
2. What is the name of the bridge which broke due to resonance?
3. In what state was that famous suspension bridge?
4. Resonance comes from a Latin noun meaning \_\_\_\_\_.
5. Explain exactly how a musical instrument exemplifies resonance?
6. What makes a fine musical instrument sound better than a cheaper instrument?
7. Explain how a tuning fork uses resonance.
8. In a naturally oscillating system, even a small force added can produce a large increase in \_\_\_\_\_.
9. Describe a voice or note which could break a wine glass. What famous singer is shown doing this on the video?
10. Glass is a very \_\_\_\_\_ fluid.
11. If glass were truly a solid, and did not flow, what would probably happen to all the glass in the world? Why?
12. Earthquake frequency's are relatively very \_\_\_\_\_.
13. Much damage to structures during an earthquake is due to the fact that very tall buildings \_\_\_\_\_ at earthquake frequencies.
14. Resonance of power or phone lines with the turbulent wind is also known as an \_\_\_\_\_ harp.
15. What was the humorous name given the famous suspension bridge?
16. Explain specifically, in your own words, what caused the bridge to collapse. How did resonance play a part in destroying the bridge?
17. At the end of the video, how does he break the beaker? How does he break the WINE glass?
18. On a scale of 1 to 10, 1 being poor, and 10 being great, what would you rate this video overall? Briefly explain what you liked and what you didn't like about it.