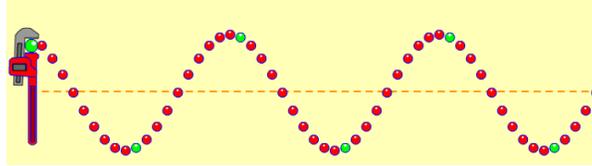


Wave-on-a-String

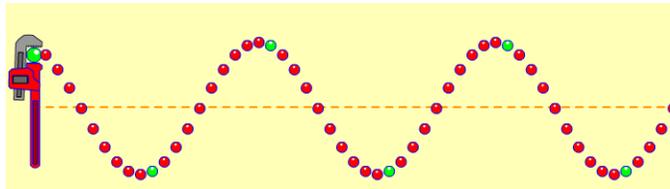
Pre-lab

Name: _____

1. A wave is created on this string by moving the wrench up and down.

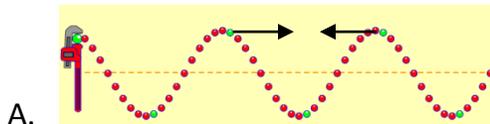
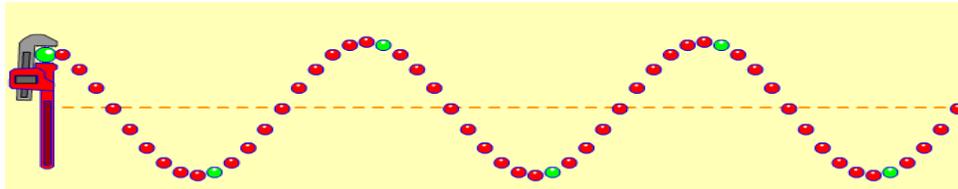


A. What would change if the wave had a higher **frequency**? _____

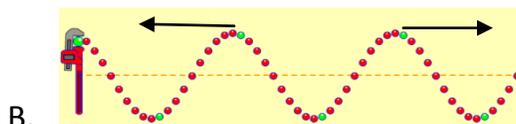
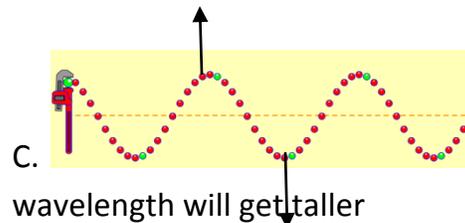


B. What would change if the wave had a higher **amplitude**? _____

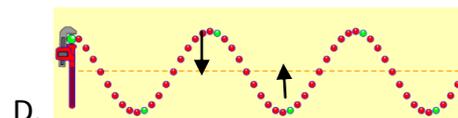
3. How will **increasing the frequency** of this wave **affect the wavelength**?



Wavelength will decrease



Wavelength will increase



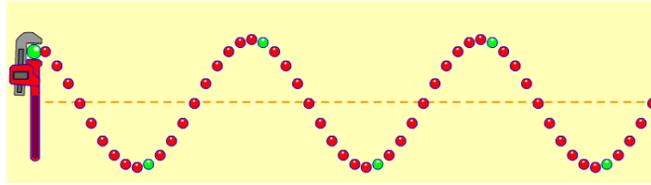
wavelength will get shorter

Wave-on-a-String

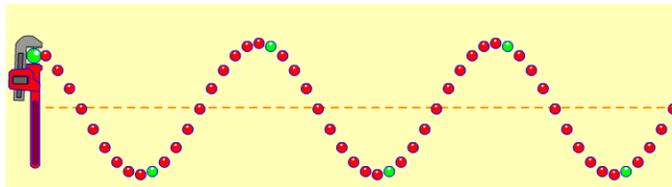
Name: _____

Post-lab

A wave is created on this string by moving the wrench up and down.

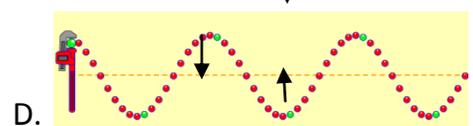
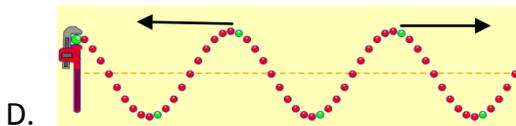
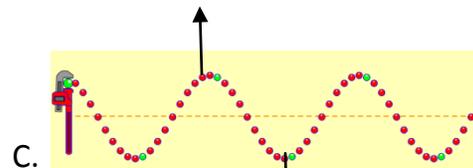
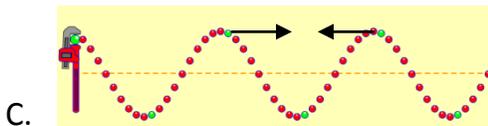
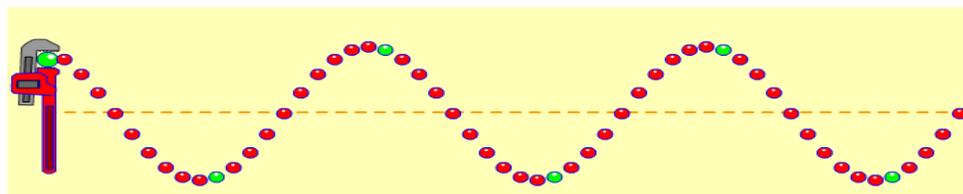


1. What would change if the wave had a higher **frequency**? _____



2. What would change if the wave had a higher **amplitude**? _____

3. Which picture shows how **increasing the frequency** in the wave will **affect the wavelength**?



4. Some of your friends are confusing frequency and amplitude. How would you describe these terms in **your own words or pictures** to help your friends understand each one?
(please write your answer on the back →)

Properties of Waves – using the [Wave on a string](#) simulation

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