

## Waves Study Guide Answer Key

1. What is the top of a wave called? **Crest**
2. What is the bottom of a wave called? **Trough**
3. What is frequency? **How many waves go past a point in one second; unit of measurement is hertz (Hz).**
4. If a wave is traveling at 60 cm/second and has a wavelength of 15 cm, what is the frequency?  
**G**  $v = 60 \text{ cm/s}$     $\lambda = 15 \text{ cm}$    **E**  $f = v / \lambda$    **S**  $f = 4 \text{ Hz}$   
**U**  $f = ?$    **S**  $f = (60 \text{ cm/s}) / 15 \text{ cm}$
5. What does amplitude measure? **How far the medium moves from rest position (where it is when not moving).**
6. On the diagram below, indicate the distance that represents the wavelength of the wave and indicate the distance that represents the amplitude.



7. How many complete waves are there in the diagram above? Is it transverse or longitudinal?  
**3, transverse**
8. What is the difference between a transverse wave and a longitudinal wave? **Transverse waves: Waves in which the medium moves at right angles (perpendicular) to the direction of the wave (looks like a jump rope). Longitudinal waves: Waves in which the medium moves back and forth in the same direction as the wave (looks like a slinky).**
9. Are sound waves transverse waves or longitudinal waves? Why? **Longitudinal waves because they move back and forth in the same direction as the wave.**
10. Why can't you calculate the frequency of the wave in the diagram? What information is missing? **Missing wave speed or the period.  $f = v / \lambda$  or  $f = 1/T$**
11. What is the wavelength of a sound wave with a frequency of 50 Hz? (Speed of sound is 342 m/s)  
**G**  $v = 342 \text{ m/s}$     $f = 50 \text{ Hz}$    **E**  $\lambda = v / f$    **S**  $\lambda = 6.84 \text{ m}$   
**U**  $\lambda = ?$    **S**  $\lambda = (342 \text{ m/s}) / 50 \text{ Hz}$
12. A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel?  
**G**  $\lambda = 10.5 \text{ m}$     $f = 620 \text{ Hz}$    **E**  $v = f * \lambda$    **S**  $v = 6510 \text{ m/s}$   
**U**  $v = ?$    **S**  $v = 10.5 \text{ m} * 620 \text{ Hz}$
13. Determine the frequency of a microwave 6.0 cm in length. (A microwave is an electromagnetic wave. It travels through space at a speed of  $3.0 \times 10^8 \text{ m/s}$ )  
**G**  $\lambda = 6 \text{ cm} \rightarrow 0.06 \text{ m}$    **E**  $f = v / \lambda$    **S**  $f = 5 \times 10^9 \text{ Hz}$   
**U**  $f = ?$    **S**  $f = (3 \times 10^8 \text{ m/s}) / 0.06 \text{ m}$
14. What is the period of the microwave in problem 13?  
**G**  $f = 5 \times 10^9 \text{ Hz}$    **U**  $T = ?$    **E**  $T = 1 / f$    **S**  $T = 1 / 5 \times 10^9 \text{ Hz}$    **S**  $T = 0.0000000002 \text{ s}$

# Answer Key Seismic Waves Worksheet 55 Chapter 19 2

**M Carnoy**



**Answer Key Seismic Waves Worksheet 55 Chapter 19 2:**

## Reviewing **Answer Key Seismic Waves Worksheet 55 Chapter 19 2**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Answer Key Seismic Waves Worksheet 55 Chapter 19 2**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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web les mains parlent carnet des initiés tome rouge livre 2 albert durer les mains qui parlent les mains qui parlent pablo picasso l'usage de saintonge entre mer et charente colligée des anciens manuscrits avec deux traités des secondes noces du droit de reversion seconde édition augmentée par me c bechet les mains parlent

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web may 25 2020 quand nous parlons avec les mains nos gestes modifient le son de notre voix parler avec les mains ne serait pas qu'une expression les gestes que nous incluons à nos discours ou à nos

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web jan 30 2017 le rappeur turc fuat ergin et son groupe eller konuşur les mains parlent cherchent à façonner un nouveau genre autour du concept du hip hop en langue des signes

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web oct 6 2015 un article récent paru dans la revue forbes soutient la théorie selon laquelle les personnes qui parlent avec les mains développent un plus grand charisme l'habitude de s'accompagner des mains lors de l'expression vocale implique une forte dose d'énergie car elles expriment plus d'émotions

*les mains parlent libreria editrice ossidiane libro* - Dec 13 2022

web les mains parlent autore i ranald josef editore brodard et taupin pp 192 illustrazioni se connaître soi même et connaître les autres par l'étude des mains j'ai maintenant réuni et étudié plus de cent mille empreintes de mains

*communication non verbale ce que l'on dit avec ses mains iforpro* - Jan 14 2023

web vous devez avoir une poignée de main franche le bras légèrement fléchi pour indiquer à votre interlocuteur qu'il est le bienvenu prise de parole et mobilité des mains les mains accompagnent également la prise de parole et peuvent venir

renforcer votre discours

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web en effet les gestes peuvent faciliter la transition vers le langage en accord avec la proposition de tomasello et son équipe tomasello et al 2007 quand les jeunes enfants utilisent le geste de pointage ils le font avec la claire compréhension des implications sociales de l acte