

Max's Musical Pitch Challenge

Learning objective: To understand and identify the properties of pitch in music, including high, low, and the relationship between string length and sound.

Help Max the monkey solve his musical puzzle! Read each question carefully and select or write the best answer to earn your musical merit badge.

Answer Key: 1.C, 2.True, 3.Low, 4.B, 5.False, 6.High, 7.A, 8.B, 9.Vibration, 10.True

Word bank: Pitch · Frequency · Vibration · High · Low · String · Tension · Melody

1. 1. Max is plucking a long, thick guitar string. What kind of pitch does it produce? A) Very high B) Medium C) Low* D) Silent (1 mark)

2. 2. True or False: Pitch refers to how high or low a musical note sounds. (1 mark)

3. 3. If you shorten a vibrating string, does the pitch become higher or lower? (1 mark)

4. 4. Which instrument would typically produce the highest pitch? A) Tuba B) Piccolo* C) Double Bass D) Cello (1 mark)

5. 5. True or False: A slow vibration creates a very high-pitched sound. (1 mark)

6. 6. When an opera singer hits a note that makes a glass shake, is that a low or high pitch? (1 mark)

7. 7. What do we call the number of vibrations per second? A) Frequency* B) Volume C) Tempo D) Rhythm (1 mark)

8. 8. If you tighten the string on a violin, the pitch will: A) Stay the same B) Increase* C) Decrease D) Become a whisper (1 mark)

9. 9. What is the physical movement of an object that creates sound called? (1 mark)

10. 10. True or False: A musical melody is created by changing the pitch of notes in a sequence. (1 mark)

Draw: Draw a diagram showing two different sized bells. Label the smaller bell 'High Pitch' and the larger bell 'Low Pitch', and draw wavy lines around them to represent the sound waves.



Extension challenge: 1. Explain why a double bass produces a lower sound than a violin. 2. Justify your answer: Does the length of a pipe in a panpipe affect the pitch it produces? 3. Compare and contrast the pitch of a bird chirping versus a lion roaring. 4. What might happen if you played a guitar with strings that were all the exact same length and thickness? 5. Design a simple instrument using recycled materials and describe how you would change the pitch of the sounds it makes. 6. If you were composing a spooky piece of music, would you use mostly high or low pitches? Justify your choice.