

Max's Musical Pitch Investigation

Learning objective: To understand and describe pitch by exploring how different instruments or objects create high and low sounds.

Join Max the monkey as he investigates the science of sound! Use this experiment-record sheet to test different objects around your classroom or home. Remember: pitch describes how 'high' or 'low' a sound is. Fill in the boxes below to share what you have discovered.

Word bank: pitch · high · low · vibration · frequency · instrument · sound wave · volume

1. The Investigation: Which two objects are you testing for their pitch? Describe their size or shape. (2 marks)

2. The Prediction: Before you make a sound, which object do you think will have the higher pitch? Why do you think that? (2 marks)

3. The Results: Describe the sound made by Object 1 and Object 2. Use words like 'sharp', 'deep', 'squeaky', or 'booming'. (3 marks)

4. The Conclusion: What did you notice about the size or length of the object and the pitch it produced? (3 marks)

5. Max's Challenge: Can you find an object that can make both a high pitch and a low pitch? Explain how you did it. (3 marks)

Extension challenge: If you were to build your own instrument using recycled items, how would you change the pitch of the notes? Write a short plan for your musical invention.