

# Nova's Pitch Investigation Record

*Learning objective: To understand how pitch changes in musical instruments and to identify high and low sounds.*

Nova the owl is investigating how different sounds are made! Choose three different objects or instruments from your classroom or home. Experiment by making them produce sounds, then use this record sheet to describe the pitch of each one and explain why you think it sounds that way.

*Word bank: pitch · vibration · high · low · frequency · tension · length · sound wave*

**1. Object 1: Name the object and describe its pitch (high or low). Why does it make this sound? (2 marks)**

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**2. Object 2: Name the object and describe its pitch. How does changing the way you play it change the pitch? (2 marks)**

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**3. Object 3: Name the object and describe its pitch. Is the sound produced by a fast or slow vibration? (2 marks)**

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**4. Compare: Which of your three objects had the highest pitch and which had the lowest? What is the main difference between them? (3 marks)**

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**5. Prediction: If you were to make a string instrument, how would you change the length of the strings to create a lower pitch? (2 marks)**

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*Extension challenge: Choose one of your objects and draw a diagram showing how you think the sound waves look for the highest note it can play compared to the lowest note it can play.*