

Activity 3 A

Wind Instruments and Resonant Frequencies



FOR YOU TO DO

1. **Wind Instruments:** Have students bring wind instruments to class. Discuss whether each instrument is open at one end or both ends. Explain how the performer plays different notes. Also discuss how to tune the instrument.
2. **Measuring Resonant Frequencies of Tubes:** With sound probe and software, measure the resonant frequency of tubes of various lengths. Make the measurements for tubes open at both ends and closed at one end. Compare your results with the predictions of the standing wave diagrams.

