

# Getting in Tune

## Procedure

- 1. Classify** Strike each tuning fork against the palm of your hand, then place it close to your ear to listen. Classify the sounds from each tuning fork as low, middle, and high. Record your observations on the lines below.

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- 2. Compare** Fill the bowl with water. Again, strike each tuning fork. Each time, dip the forked end slowly in the water after striking it. Observe and compare the sizes of the ripples produced. Record your observations below.

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- 3. Hypothesize** Form a hypothesis about whether sounds change when they travel through different materials such as wood, metal, and rubber. Record your hypothesis here.

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- 4. Experiment** Strike a tuning fork and hold the end of its handle against the block of wood. Listen; then record what you hear. Repeat with the metal sheet and the rubber eraser.

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- 5. Communicate** On a separate sheet of paper, make a chart to organize the information that you recorded. Use the chart to compare your observations with those of another student.

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## Conclusion

Write the answers to the questions below.

1. **Analyze Data** What do the ripples in the water show about tuning forks?

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2. **Compare** Did evidence support your hypothesis from step 3? Compare your hypothesis to the results of the experiment.

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## Investigate More!

**Design an Experiment** Investigate the effect of changing tension or thickness of a vibrating object, such as a string or a rubber band. Plan an experiment. With your teacher's permission, carry it out.

