Water Bottle Music

- 1. The science of sound is all about vibrations
- 2. Hit the bottle with a spoon, the glass vibrates
- 3. The vibration makes the sound
- 4. Adding water to the bottle dampens the vibration
- 5. Less water in the bottle, the faster the glass vibrates, the higher the pitch
- 6. Add more water, the slower the glass vibrates, the lower the pitch
- 7. The same bottle that makes a low pitch when you tap it, makes a high pitch when you blow across the top
- 8. The same bottle produces opposite sounds!
- 9. When you blow into the bottle, you are making the air vibrate, not the glass.
- 10.An empty bottle produces a lower pitch because there's lots of air in the bottle to vibrate
- 11. Add water, decrease the air space, less air to vibrate
- 12. With less air, vibrations happen more quickly and produce a higher pitch
- 13. Using 8 bottles, or glasses, you can make a major scale
- 14. Try tapping and blowing
- 15.Can you play Jingle Bells/Mary Had a Little Lamb/Twinkle, Twinkle, Beethoven's 5th Symphony theme?