

## Layered Liquids Lab Answer Key

1. **Syrup** (1.38 g/mL) — it's the densest of the three.
2. Alcohol (0.79), Oil (0.90), Water (1.00), Saltwater (1.05), Honey (1.42)
3.  $D = \frac{18}{20} = 0.9 \text{ g/mL}$
4.  $D = \frac{210}{200} = 1.05 \text{ g/mL}$
5. **Alcohol floats** on **corn syrup** (less dense).
6. Total volume = 100 mL  $\rightarrow D = \frac{95}{100} = 0.95 \text{ g/mL}$
7. The marble's density is **greater than oil** but **less than water**.
8.  $m = 1.42 \times 15 = 21.3 \text{ g}$
9. **Corn syrup layer** (denser) exerts more pressure due to greater mass per volume.