Dense, denser, densest
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Beaker: Substances should appear in this order from top to bottom: gasoline, rubbing alcohol, vegetable oil, glycerol, and corn syrup.
Tank: Floating objects are: cork, ice, block of wood
Objects at the bottom of the tank are: gold ring, marble

Density detective
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1. $D = m \div V = 26.76 \div 3 = 8.92$ g/ cm3
The old coin must be made of copper.
2. $D = m \div V = 5.28 \div 2 = 2.64$ g/ cm3
You found a quartz.
3. $D = m \div V = 107 \div 5 = 21.4$ g/ cm3
The ring must be made of platinum.
4. $D = m \div V = 184.32 \div (3 \times 4 \times 6) = 2.56$ g/ cm3
The paperweight must be made of marble.