

## **Inertia and liquids**

As you probably observed, eggs with more Orbeez were more unstable. Why? As you spun one of these eggs, the liquid in the Orbeez shifted away from the axis of rotation, causing the rotational inertia to increase. As a result, the egg spun more slowly, and became less stable. In contrast, the mass of eggs packed mostly with clay was, on average, distributed closer to the axis of rotation, which caused the rotational inertia to decrease. These eggs spun faster, and their stability increased.

**Based on what you observed in this experiment, why do you think a raw egg spins differently from than a hardboiled egg?**