

When spinning a disk-shaped object (such as a frisbee or a kitchen plate), there is some wobbliness associated with its angular speed. Spinning a disk faster will produce less wobbliness, and spinning a disk slower will produce more wobbliness. What is the optimal angular speed that would produce a stable disk, one that does not wobble?

1. Why does warm air rise and cold sink? 2. When a problem asks you to integrate or differentiate, how do you know what to keep as a constant or the variable? In other words, how do you even begin to set up problems that include calculus?

How does the wind blow?

1. What is the hot chocolate effect/allanasonic effect? 2. What is the Leidenfrost effect?

Why does sunlight on your skin feel less intense in the winter and at higher latitudes? It makes sense that it would be less intense as it hits the ground, but considering that people stand perpendicular to the ground, shouldn't the light be hitting you more directly? For example, standing at the north pole at an equinox, you would expect the sun's rays to be hitting perfectly normal to your face.

Why does snow form into elaborate crystalline structures rather than just a ball of ice, like hail?

We've talked about LEDs for a couple weeks now, I was wondering what LCDs are and if there is any relation to LED technology?

How do brewers know how alcoholic their beer or wine is going to be?

Is it possible to trap light?

Is teleportation possible? If so, how might it be achieved in large scales?

Are lightsabers possible?

Can you define what a charge really is?

What is the origin of mass?