



Centripetal Force





My Name Nick Liu
I am a 22 years old student
I Love Music
I Love Movie
I like to swim when i have time

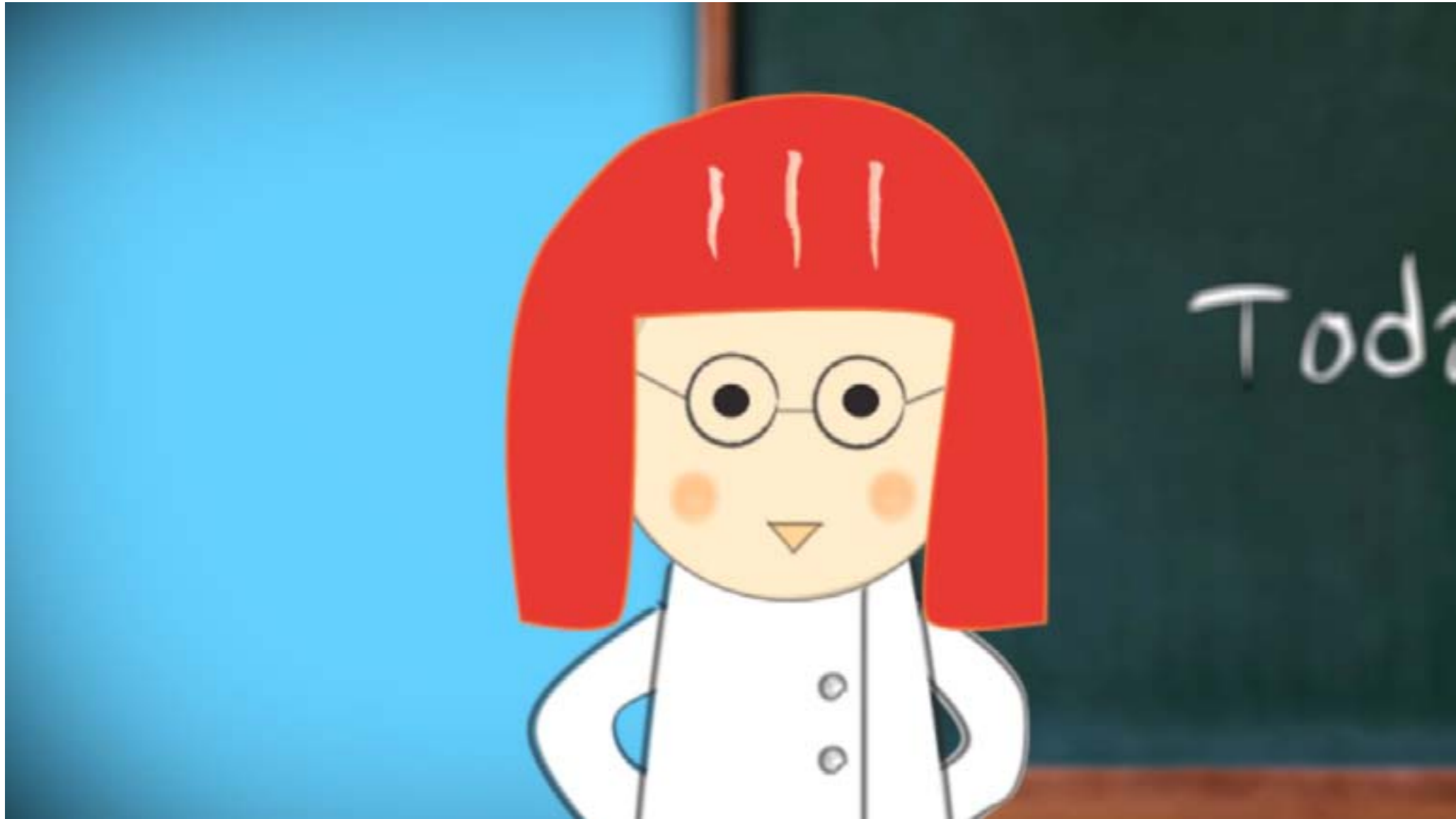
Science Advice

By

Professor Robert K Y Li



Once upon a time, There are two very intelligent doctors in the world.



Hallo, I am Dr. Red!



Hallo, I am Dr. Green!



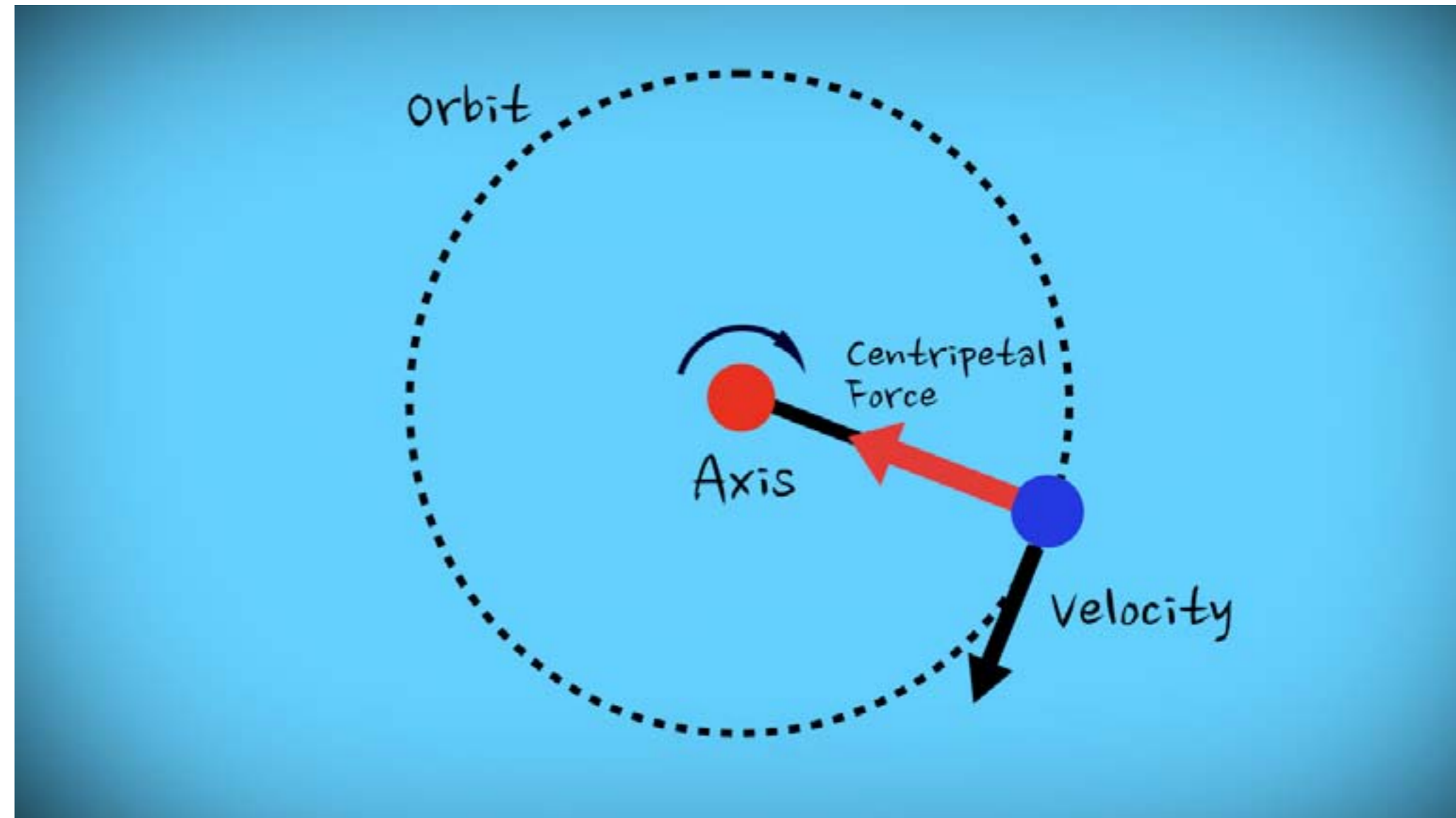
Hey, doctor. Why we will not fall down when we play Roller coaster.



It is because centripetal force!! Let us tell you why.



Centripetal force is a force that makes a body follow a curved path.



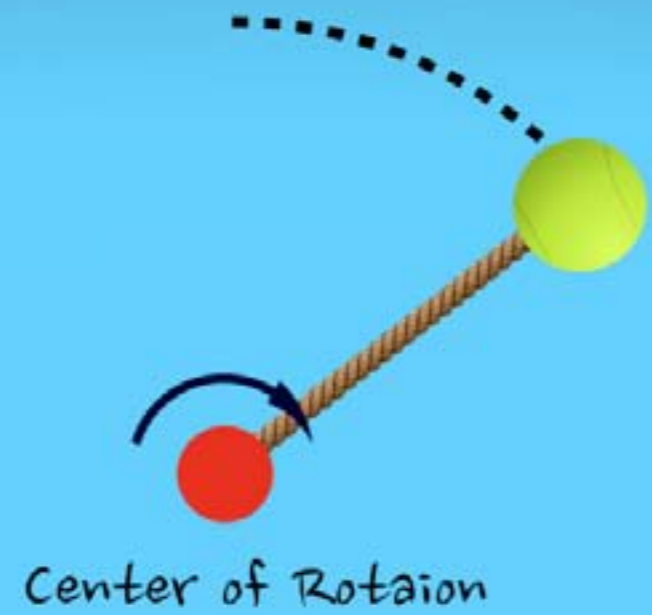
Centripetal force is a force that makes a body follow a curved path: its direction is always orthogonal to the velocity of the body, toward the fixed point of the instantaneous center of curvature of the path. Centripetal force is generally the cause of circular motion.



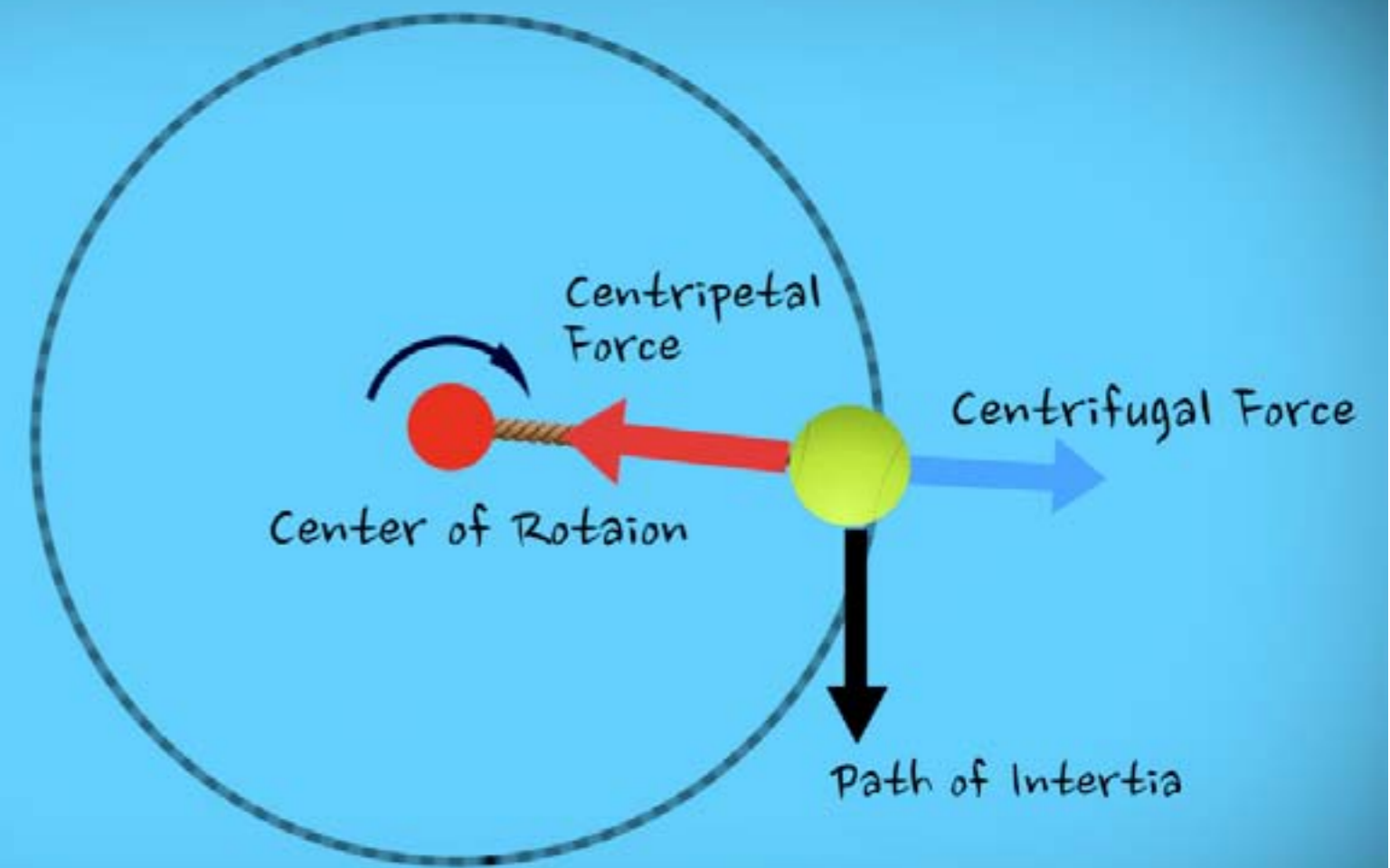
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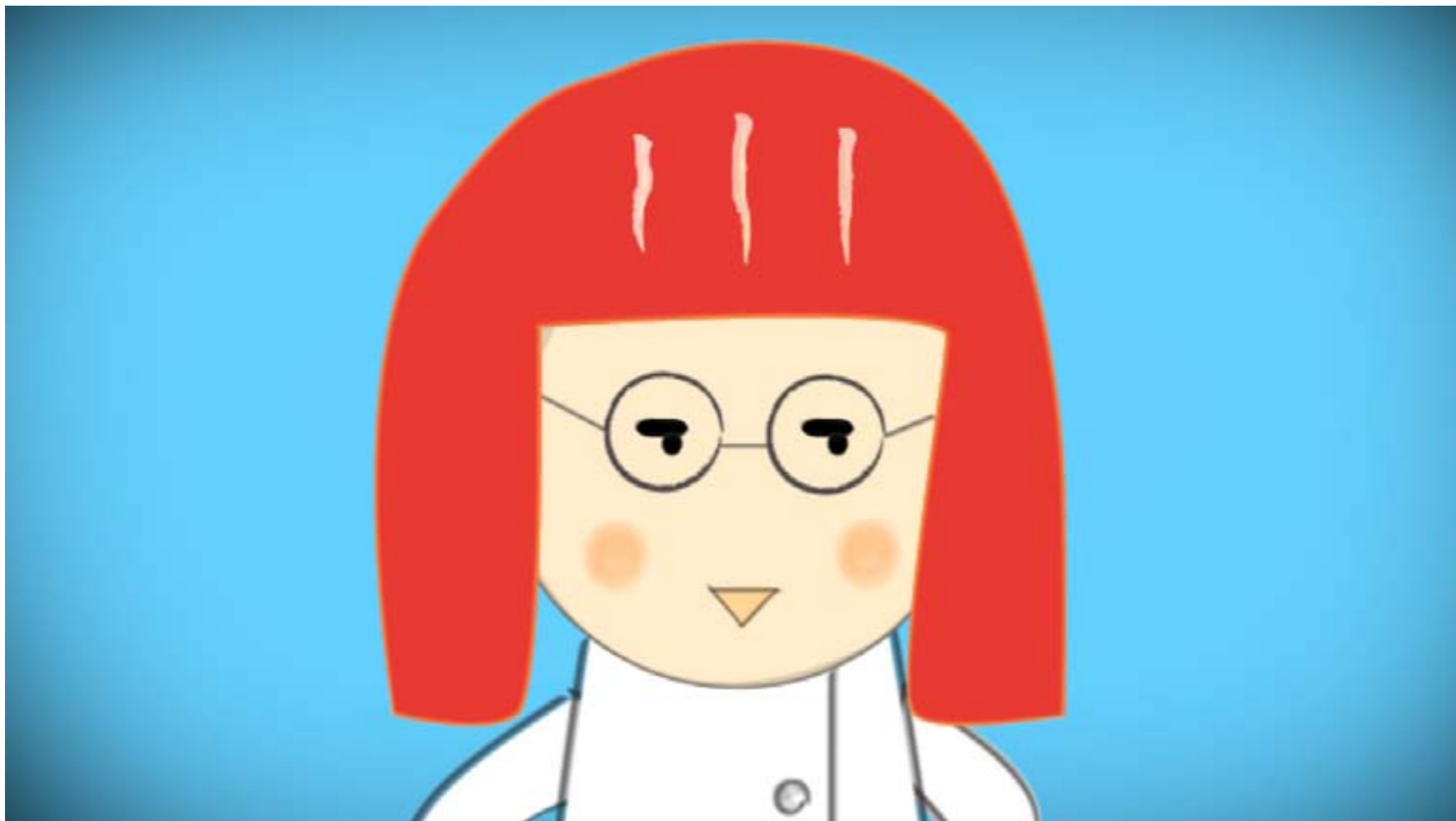
Let's make it simpler.



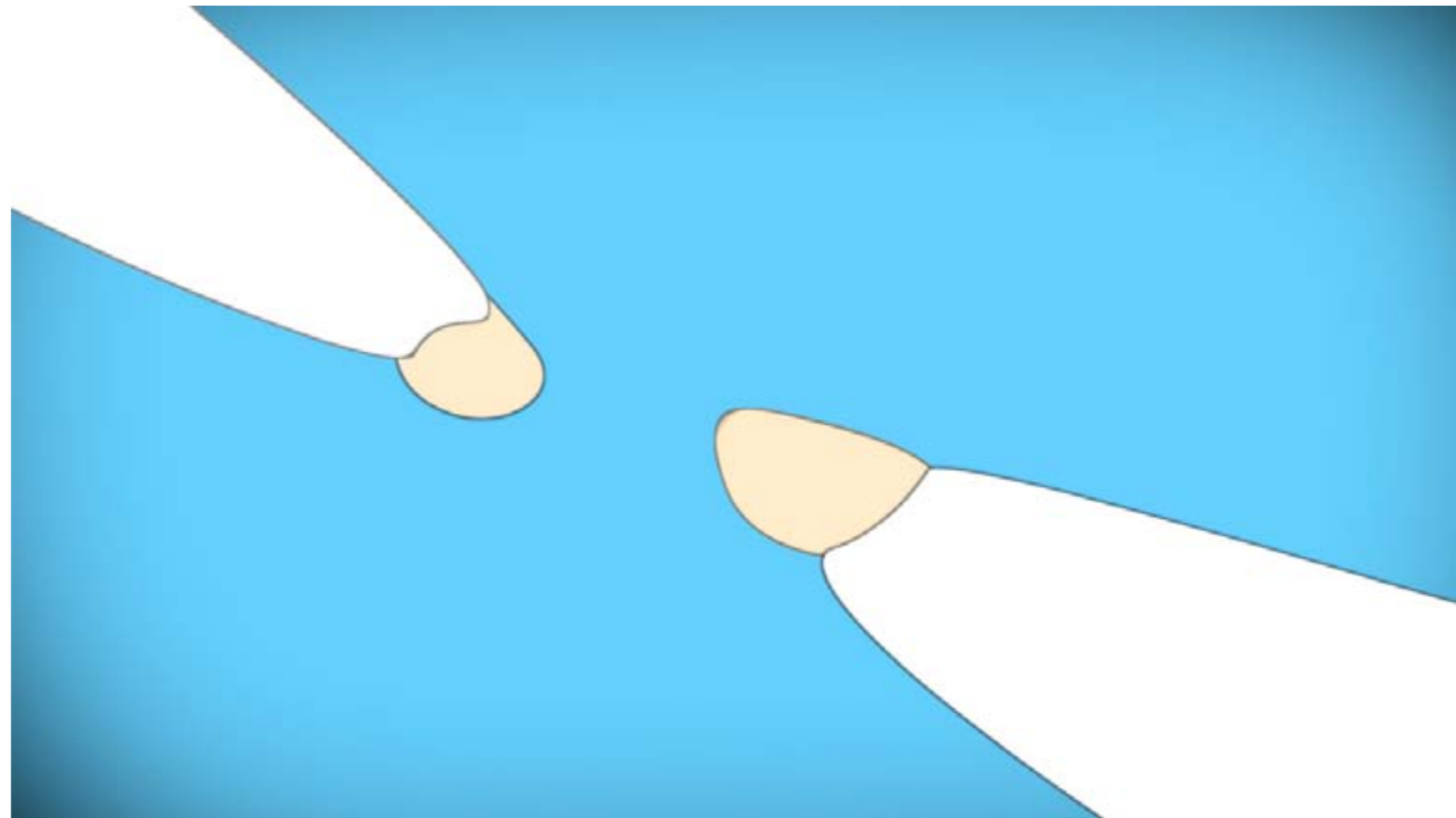
Imagine spinning a ball on a string around you. The ball is traveling in a circular path.



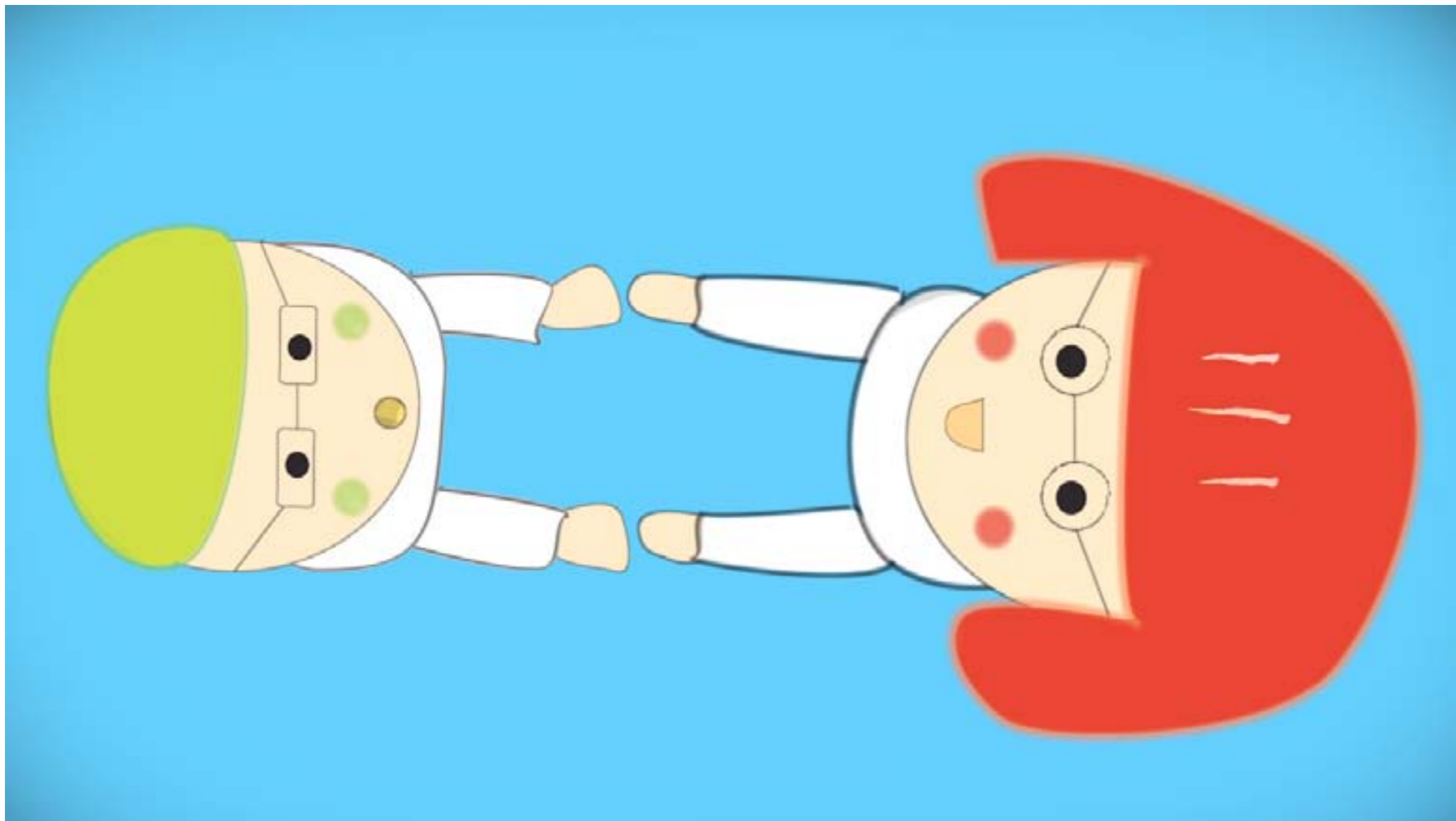
An outside force must be acting on the ball - that force is the string. The string is pulling the ball back toward you, acting as the centripetal force.



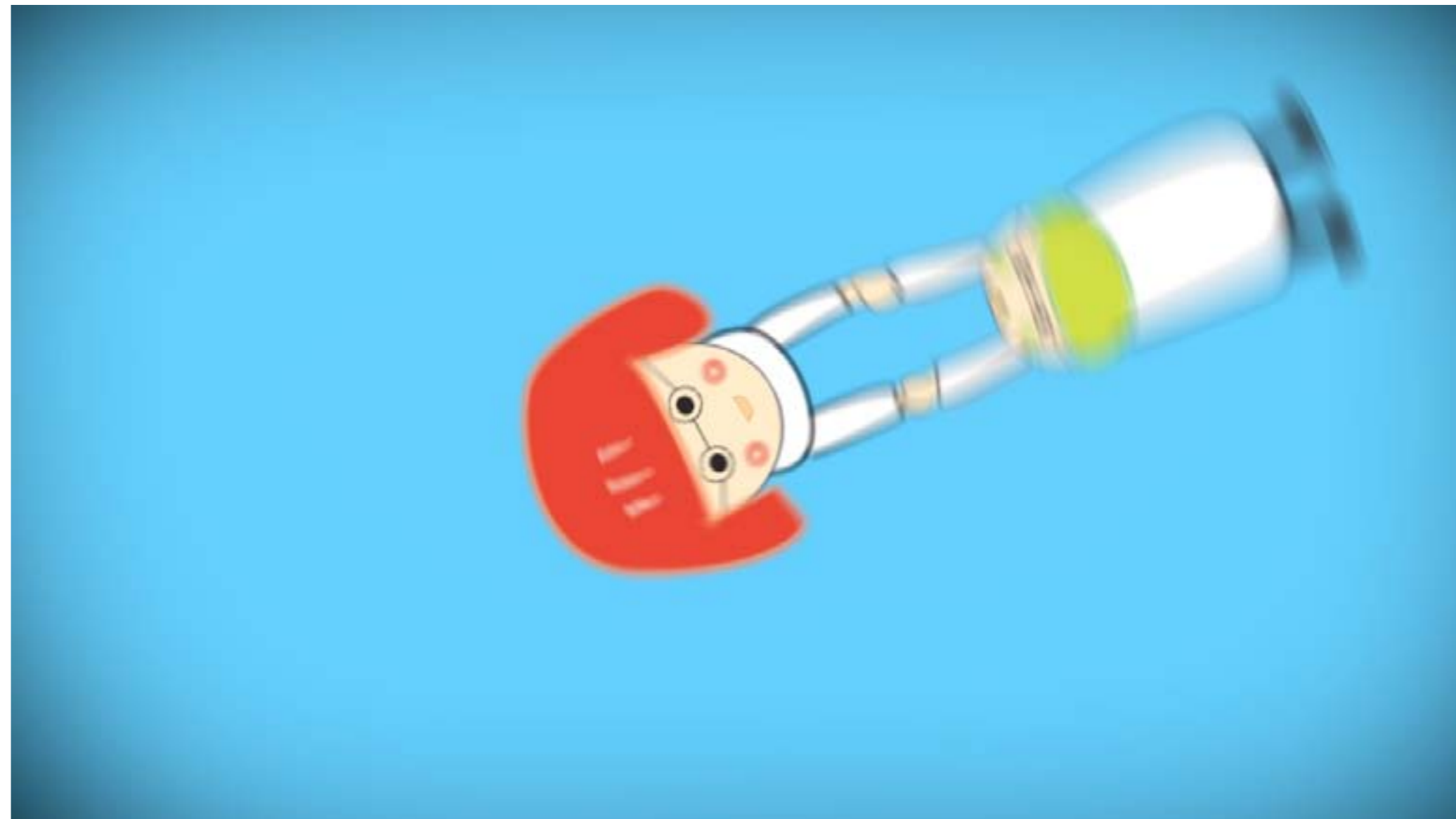
let me tell you an other example.



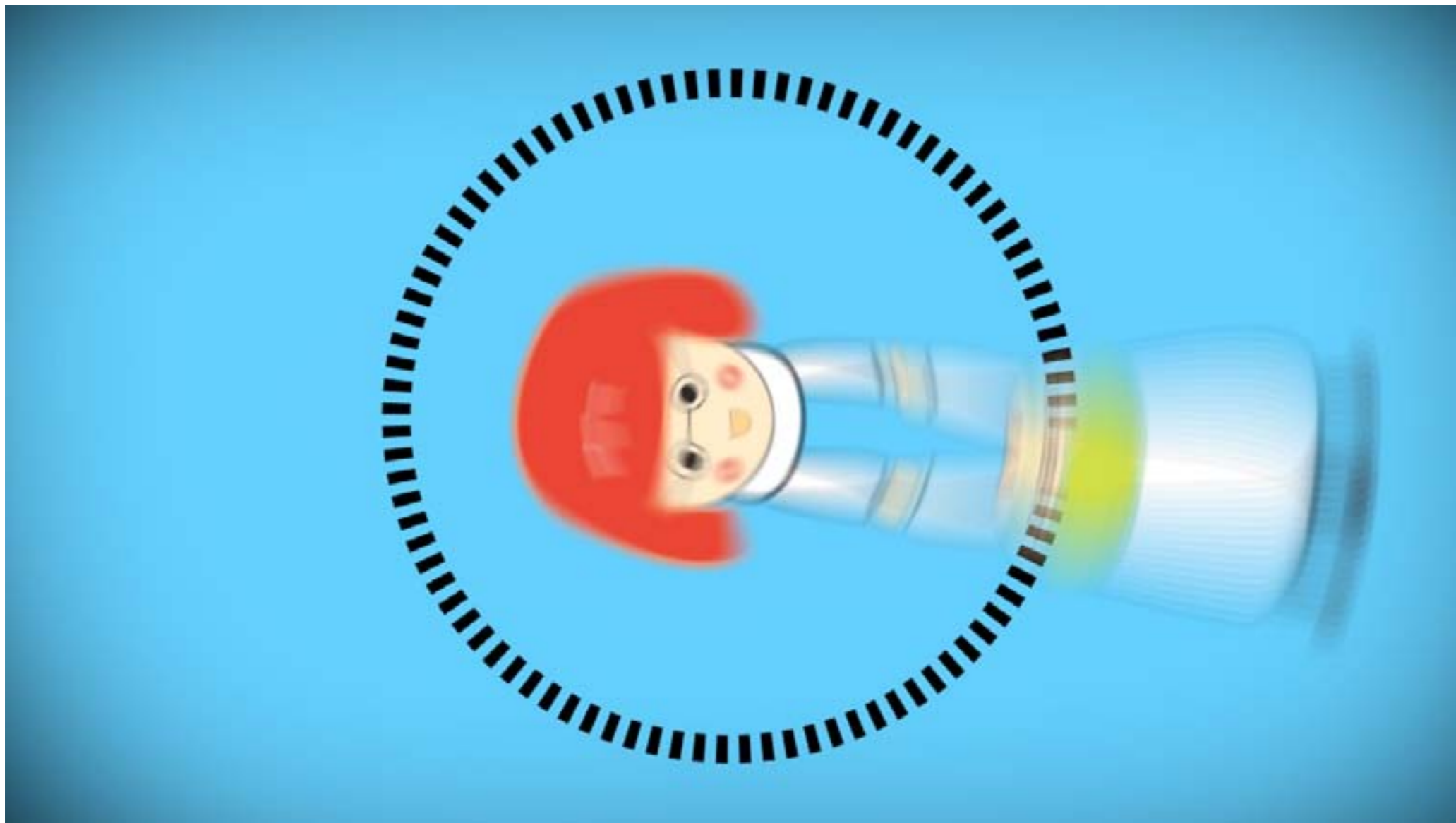
Green, give me your hand.



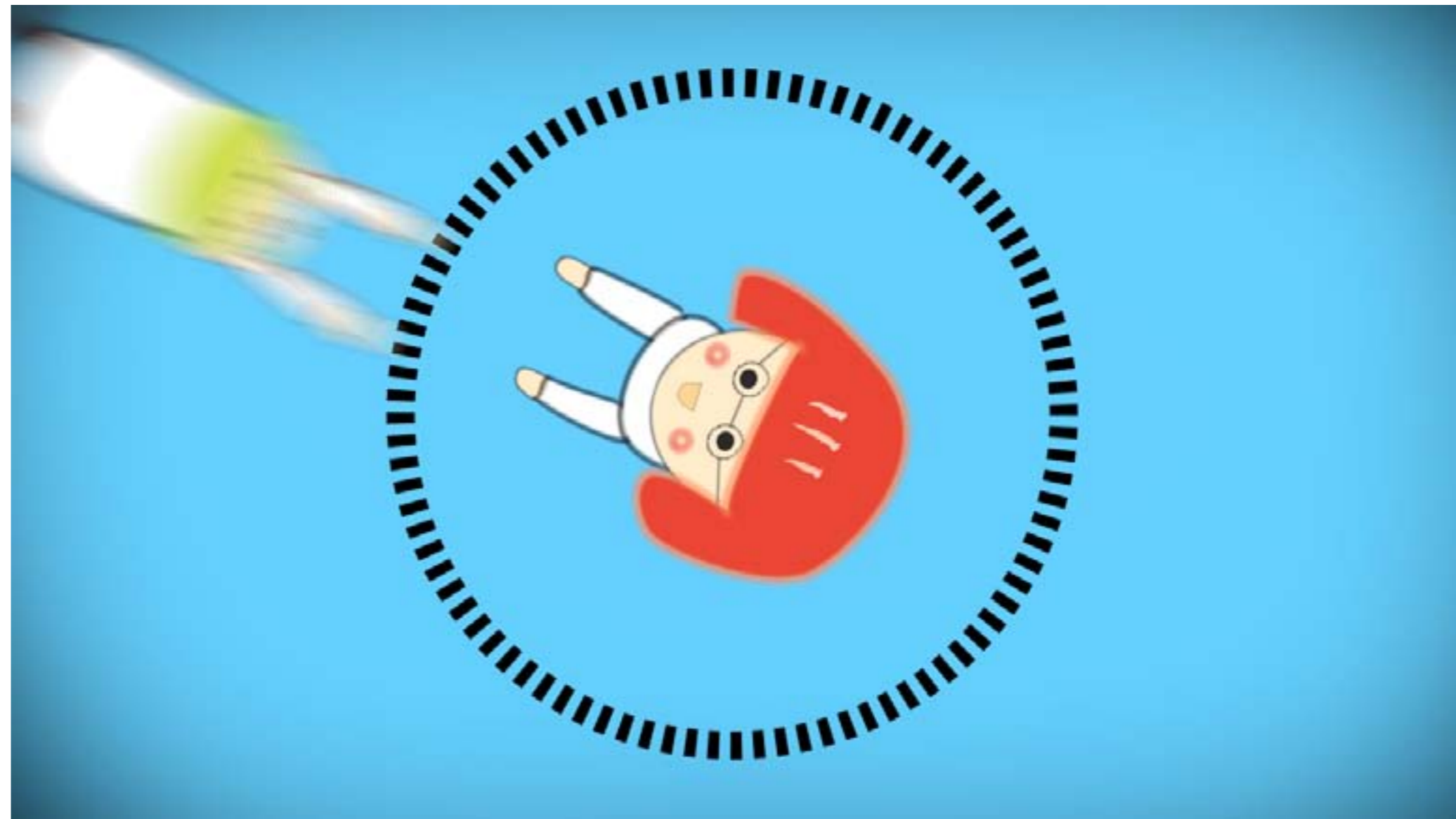
Dr. Green be the ball.



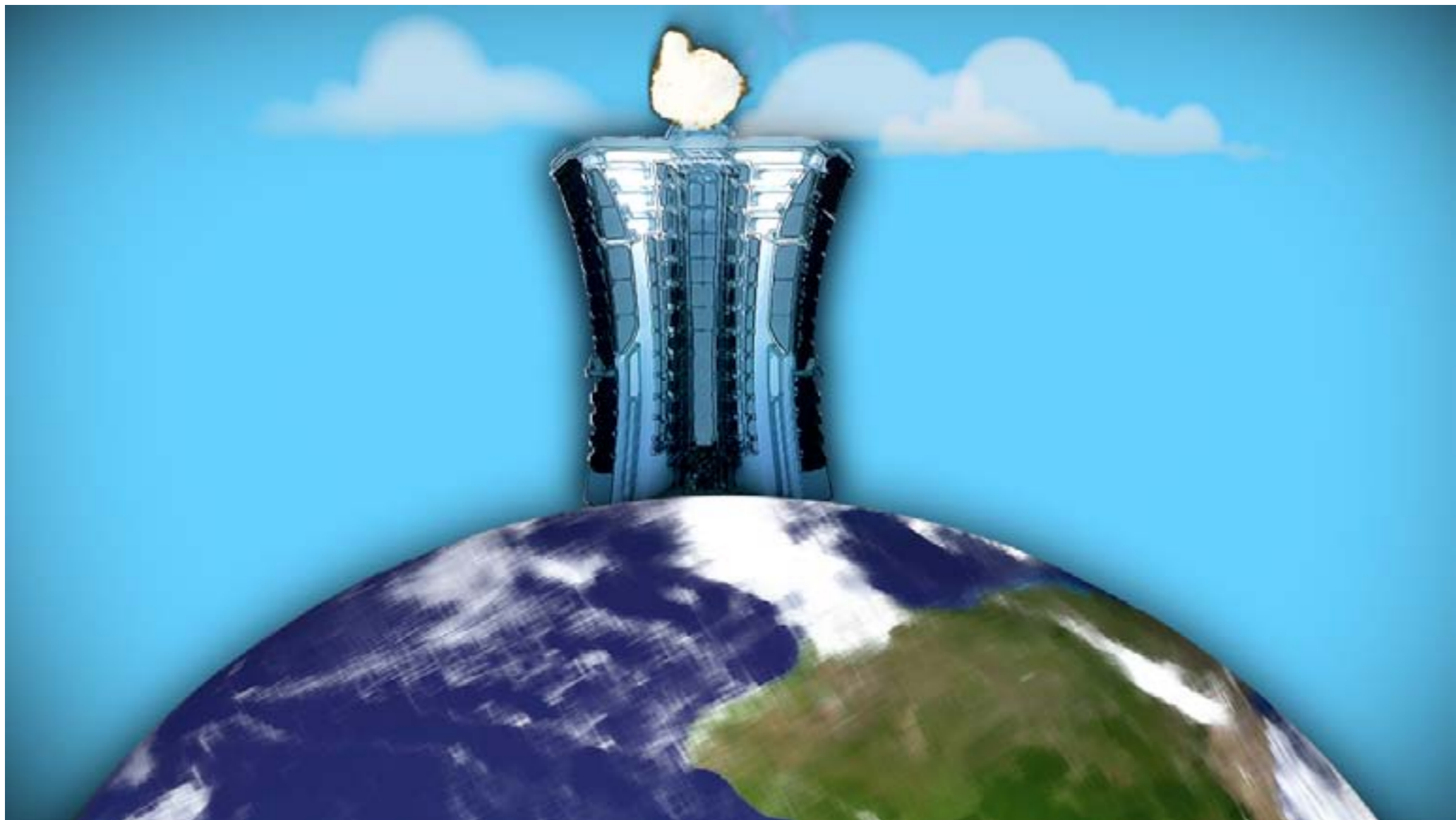
If i spinning Dr. Green in a circular path.



Dr. Green pulling me back, this is centripetal force.



WOH! Don't let go!!



BOOM!!



Thats the end of todays class.