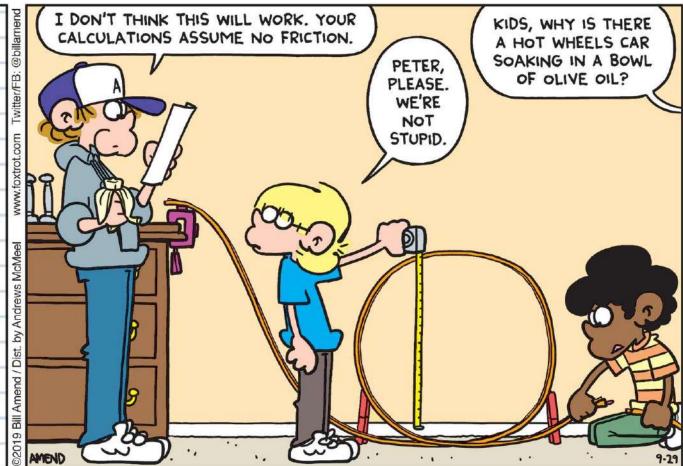


Kinetic energy = Δ Potential Energy $\frac{1}{2}mv_B^2 = mg(h_A - h_B)$ $v_B^2 = 2g(h_A - h_B)$

To stay on the track at B, $\frac{V_8^2}{r} \ge g$ So... $\frac{2g(h_A - h_B)}{r} \ge g \Rightarrow (h_A - h_B) \ge \frac{r}{2}$ $\Rightarrow h_A \ge h_B + \frac{h_B}{4} \Rightarrow h_A \ge \frac{5}{4}h_B$

.. The largest possible loop-the-loop will be $\frac{4}{5}$ the starting height.

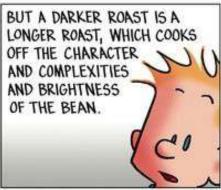






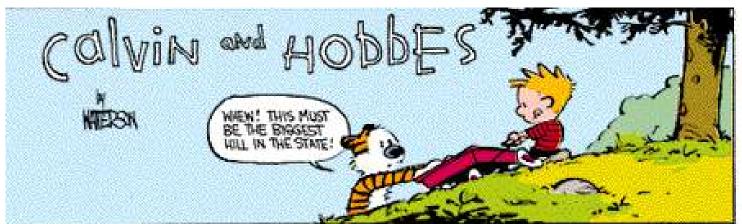


















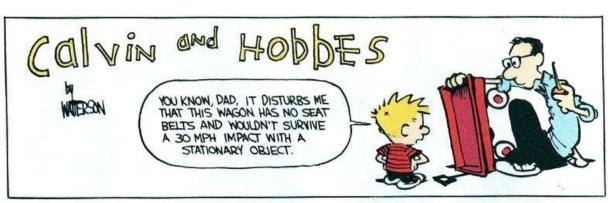


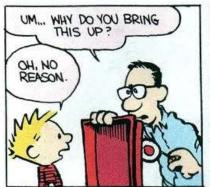


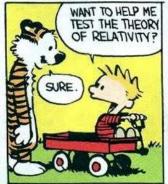














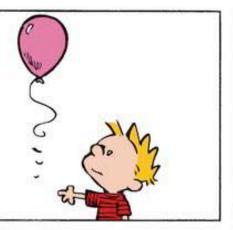


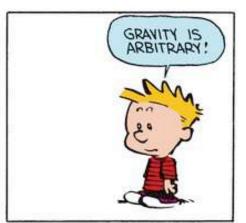






Calvin and HOBBES





CALVIN WAKES UP ONE DAY TO FIND HE IS IMMUNE TO THE FORCE OF GRAVITY.



HE HANGS ON TO THE GROUND FOR DEAR LIFE, BUT HIS GRIP IS WEAKENING!















HATERSON

YOU KNOW, DAD, IT DISTURBS ME THAT THIS WAGON HAS NO SEAT BELT'S AND WOULDN'T SURVIVE A 30 MPH IMPACT WITH A STATIONARY OBJECT.









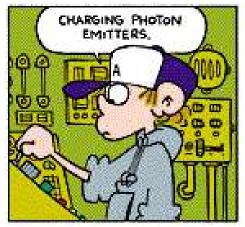




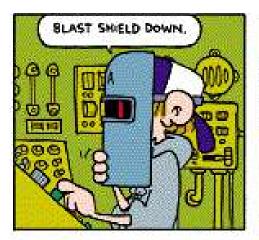


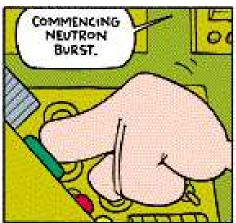


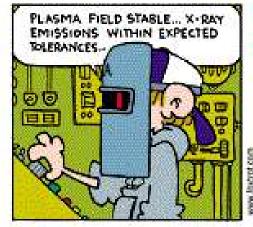
FOXITOR by Bill Amend

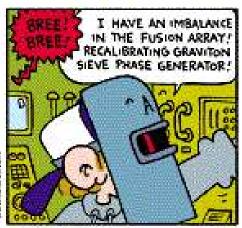


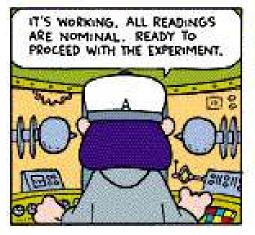


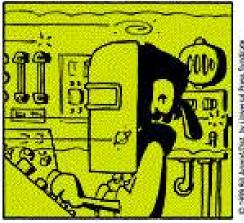


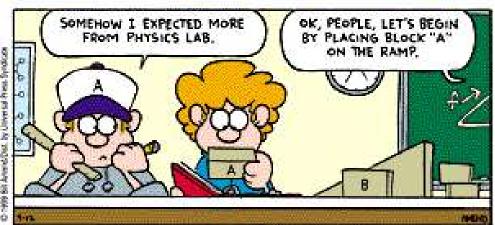




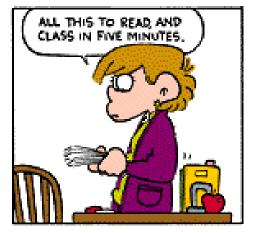








FOXITO Cotoby Bill Amend





Q: A train leaves Station A at 10 a.m. and arrives 180 miles away at Station B at 2 p.m. Calculate the train's average speed for this trip.



A: Assuming that the track is straight... Assuming that the track is level... Assuming that the train stays on the track for the entire trip...



Assuming that all clocks used dre Synchronized... Assuming that all clocks used are occurate. Assuming that Stations A and B are in the same time zone... Assuming the times occur on the same day...



Assuming that 180 miles is the distance along the curved surface of the Earth and not "as the mole digs," so to speak... Assuming the train doesn't take a backward route and circle the globe...

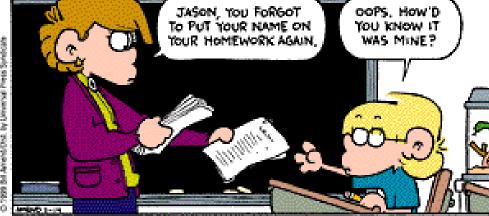


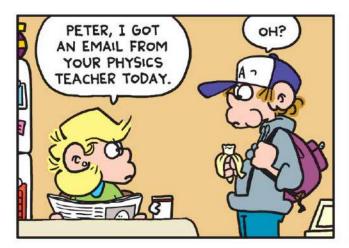
Ignoring the motion of the Earth as it twirts and whizzes through space and, lastly, ignoring relativity's effects on moving clocks and observers...



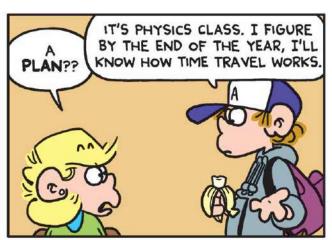
45 mph.



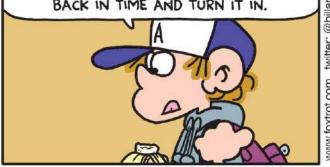












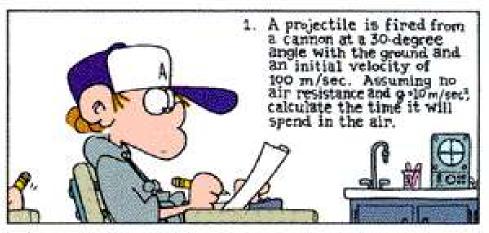


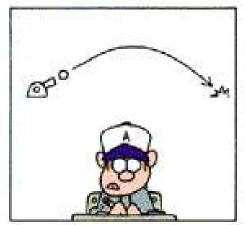


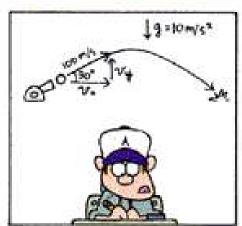
FOXIOG BILL AMEND

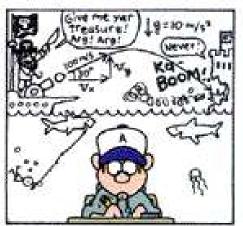






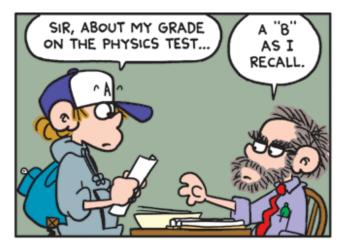




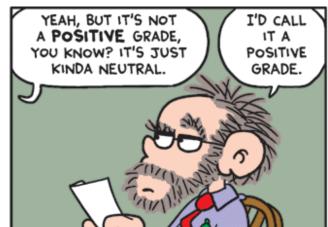


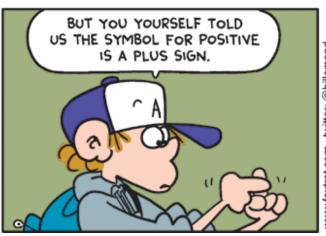




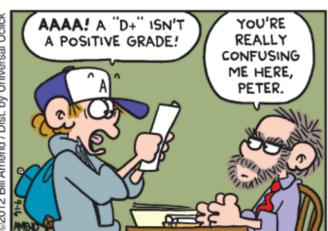






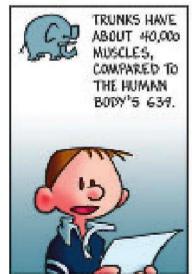


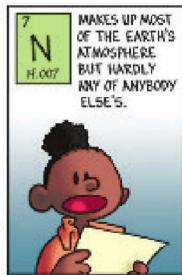


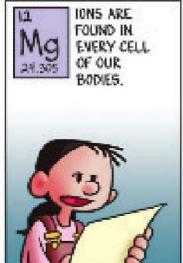


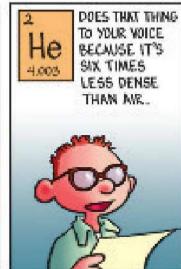


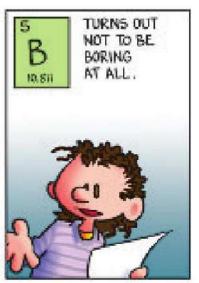
Frazz By Jef Mallett



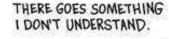




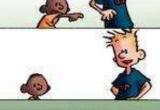








YOU HAVE TO THINK LIKE A PHYSICIST.



IT SEEMS LIKE THE APPARENT WIND WOULD BE PUSHING HIS SHIRT DOWN.



BUT THE AIR ABOVE HIS SHIRT IS "MOVING" FASTER THAN THE AIR THAT'S SHELTERED BY HIS TORSO.

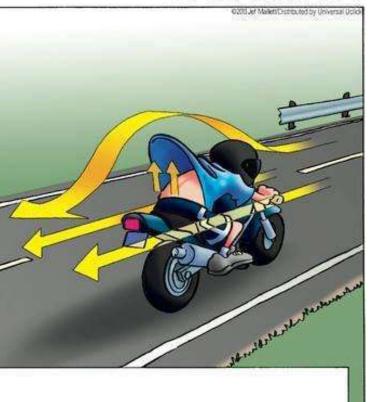


MOVING AIR EXERTS LESS PRESSURE THAN STILL AIR, SO THE DIFFERENTIAL LIFTS HIS SHIRT THE SAME WAY IT LIFTS AN AIRPLANE WING.

I MEANT I DON'T UNDERSTAND WHY ANYBODY WOULD BALANCE OVER AN ABRASIVE SURFACE AT 70 MPH IN SHORTS AND A T-SHIRT.



YOU HAVE TO THINK LIKE A 20-SOMETHING WHO'S BEEN REALLY LUCKY SO FAR.



MAUET 8-18









