

PHYSICS
MORE ACCELERATION
BRINGING IT ALL TOGETHER (More Acceleration Formulas)
So Far
And Now
Remember - when dealing with velocities (or accelerations with direction) its important to establish which direction
is <i>Positive</i> .



AG	PHYSICS
	MORE ACCELERATION
Ex: A car	travelling at 80 km/h (22.22 m/s) decelerates to 50 km/h 13.88 m/s) in 2 seconds. How far does it travel over this time eriod?
Ex: The C	CN Tower is 553 m tall. If you dropped a watermelon off the how fast would it be going when it hits the ground? The acceleration due to gravity is 10 m/s².



		PHYSICS
ſ		HOMEWORK
	1.	Shelly starts from rest on her bicycle at the top of a hill. After 6.0s she has reached a final velocity of 14m/s. What is Shelly's acceleration?
	2.	A ball is rolling at 4.80m/s over level ground when it encounters a ramp, which gives it an acceleration of -0.875m/s ² . If the ramp is 0.750m long, what is the final velocity of the ball when it reaches the top of the ramp?
	3.	Bill's motorcycle can accelerate at 7.05m/s ² at a certain RPM and gear. How far, starting from rest, will Bill travel in the first 2.50s?
	4.	Lisa drops a ball. If the ball accelerates at 9.80m/s ² , how long will it take the ball to reach a velocity of 15.0m/s?
	5.	Big Bob is on his Harley and moving at 14.0m/s. He then accelerates to a velocity of 25.0m/s over a distance of 0.250km. What is Big Bob's acceleration?
	6.	Chuck's car is moving at 65.0m/s when he suddenly accelerates his car at 15.0m/s ² for 3.00s. How far did Chuck, and car, travel while he was accelerating?

