Cen	<u>tripetal Force</u>		U2P3a
0	When the sum of all the force	s acting on an object create	es motion, this sum is called
	Co	entripetal literally means to	wards the of a
	curve/ So, centrip	petal force,, points	just like,
	This is because	causes	But, remember
	points inste	ad.	
Circ	cular Motion Examples		
0	WARNING: Centripetal force	e is a force, it is a	So, you must
	always ask yourself, "Which	true forces are creating the	motion?"
0	Combining Newton's 2 nd Law () and Centripetal Acceleration (), we		etal Acceleration (), we get that
	===	= Since mass	s and v^2 are both scalars, this reaffirms that
	,, and have th	e same	
Turr	ning on a Road	Horizontal Sling	Solid Wheel (Ferris)

Vertical Sling

Banked Turn*

Orbits (next page)

<u>Orbits</u>

U2P3b



- Note: ____ disappears. So, with a satellite orbiting Earth, you can't solve for _____
- Note: Since speed is _____, v = ____ = ____, where T equals _____

Motion Revisited

Diagonal nuch on a how with friction		Car clowing while traveling downhill
	Diagonal push on a box with metion	Car slowing while travening downnin.