Name:	
Period:	Subject:
Date:	

## TV Announcer (Physics of Sports) Important Terms

Next to each numbered physics term, write the letter of the correct definition for that term:

1	kinetic energy	a. Downward force exerted by an object due to gravity
2	_ force	b. An object in motion stays in motion, an object at rest stays at
		rest stays at rest, unless acted upon by an outside force
3	work	c. Rate at which your position changes; how fast you go
4	friction	d. Force applied over a distance; same units as energy
5	_ weight	e. Amount of matter in something
6	acceleration	f. For every applied force there's an equal and opposite force
7	Newton's Third Law	g. Energy is neither created nor destroyed, type is just changed
8	_ inertia	h. Distance above the ground or other reference point
9	_ potential energy	i. Energy related to motion
10	speed	j. Acceleration that attracts two masses to each other
11	Newton's Second Law	k. A measure of how long it takes for something to happen
12	conservation of energy	1. Change in speed
13	gravity	m. Energy due to height
14	mass	n. Ratio that describes "slip" or "grip" between two surfaces
15	Newton's First Law	o. A push or pull that can accelerate an object
16	distance	<b>p.</b> negative acceleration; acceleration in the opposite direction
17	time	$\mathbf{q}$ . $\mathbf{F} = \mathbf{ma}$
18	deceleration	r. Force that resists motion due to contact between objects
19	coefficient of friction	s. The difference in position between two objects
20	_ height	t. Tendency of matter to stay at rest or stay in motion