
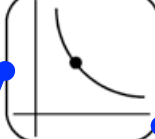
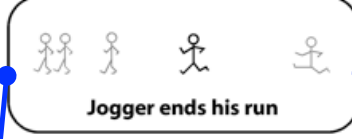
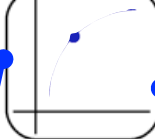

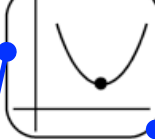

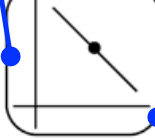

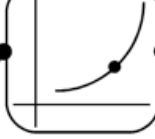

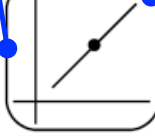
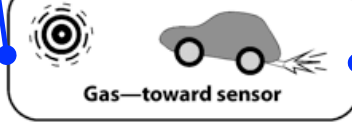
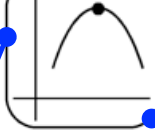
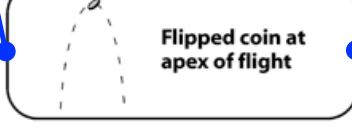
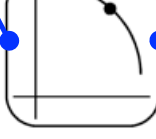


PhyzJob: Motion Match-O-Rama







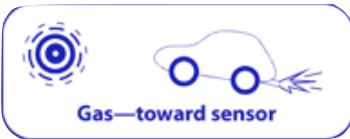
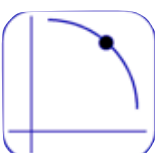









Several moving objects are described below. Make all appropriate connections between the first column verbal descriptions, second column pictures, third column position vs. time graphs, and fourth column velocity and acceleration information. Notice that one set of connections has already been made.

Each column is missing one element; add all missing elements so that each column is complete. (There are multiple correct solutions for the element missing from column two, but all correct solutions depict the single motion missing from the column.)

	 Toy car moves across table		+> Velocity >+ +> Acceleration >+
Speeding Up	 Jogger ends his run		+> Velocity >+ -< Acceleration <-
	 Toy car moves across table		-< Velocity <- -< Acceleration <-
Uniform Motion	 Braking—away from sensor		-< Velocity <- +> Acceleration >+
	 Bungee jumper at full stretch		+> Velocity >+ Acceleration = 0
Instantaneous Rest	 Jogger starts her run		Velocity = 0 +> Acceleration >+
	 Gas—toward sensor		-< Velocity <- Acceleration = 0
Slowing Down	 Flipped coin at apex of flight		Velocity = 0 -< Acceleration <-

The matching lines on the other side can be confusing. Organize the descriptions, pictures, and graphs in the four spaces below. When you are done, each space will contain two pictures, two graphs, and two velocity/acceleration descriptions.

Uniform Motion	 Toy car moves across table	$+> \text{Velocity } >+ $ $\text{Acceleration} = 0$	
	 Toy car moves across table	$-< \text{Velocity } <- $ $\text{Acceleration} = 0$	
Speeding Up	 Jogger starts her run	$+> \text{Velocity } >+ $ $+> \text{Acceleration } >+ $	
	 Gas—toward sensor	$-< \text{Velocity } <- $ $-< \text{Acceleration } <- $	
Slowing Down	 Braking—away from sensor	$+> \text{Velocity } >+ $ $-< \text{Acceleration } <- $	
	 Jogger ends his run	$-< \text{Velocity } <- $ $+> \text{Acceleration } >+ $	
Instantaneous Rest	 Flipped coin at apex of flight	$\text{Velocity} = 0 $ $-< \text{Acceleration } <- $	
	 Bungee jumper at full stretch	$\text{Velocity} = 0 $ $+> \text{Acceleration } >+ $	