Name		Date	Class	
(Unit 3 Chapte	er 1, Activities 2–8)			
Forces and	d Matian			
	force exerted 1. A force	ce is a <i>push</i> or <i>pull</i> , an <i>ion</i> . A force arrow reprity 2)		=
2. A constan	t forward force exerted o	n an object causes an		
object to s	speed up. (Activity 2)		spe	eding up
What evidence	ve supports this idea?		op.	Ja9 ap
object has	re no interactions affecting s constant speed. (Activity see supports this idea?		hen the	constant speed
object to s	at backward force exerted slow down. (Activity 4) the supports this idea?	on an object causes a	n •	
				slowing down

Scientists' Consensus Ideas How Forces Affect Motion

if the forces are unbalanced in the direction of motion the object speeds up. (Activity 7) What evidence supports this idea?	speeding up
6. When multiple forces are exerted on an object, if the forces are unbalanced in the direction opposite the motion, the object slows down. (Activity 7) What evidence supports this idea?	slowing down
7. When multiple forces are exerted on an object, if the forces are balanced the object has either zero speed or constant speed. (Activity 7) What evidence supports this idea?	constant speed
8. A force can change the direction that an object moves. When a constant inward force is exerted on an object, the object moves in a circle. (Activity 8) What evidence supports this idea?	

Scientists' Consensus Ideas How Forces Affect Motion Other Ideas about Forces 9. Force is not transferred from one object to another. In mechanical interactions (friction, drag, elastic, and applied interactions), objects touch each other while pushing or pulling each other during the interaction. For these four mechanical interactions, forces are applied *only* while the interacting objects are *touching*. (Activity 5) What evidence supports this idea? **10.** During any interaction, energy is transferred from one object to another. (Activity 5) What evidence supports this idea?