LECHÂTELIER

collisions® HIGHER EDUCATION

		TOPICS COVERED				
Level	**Level Name**	**Relative Reaction Rates (Forward vs Reverse)**	**Relative Kc**	**LeChatelier's Principle (concentration disturbances)**	**LeChatelier's Principle (Temperature Disturbances)**	**LeChatelier's Principle (Pressure Disturbances)**
1T	Add more reactant	x	x	x		
2T	Add more product	x	x	x		
3T	Increase concentrations	x	x	x		
4T	Remove particles	x	x	x		
5	Decrease concentrations	x	x	x		
6	Disturb concentrations	x	x	x		
7	Disturb concentrations in aqueous solution	x	x	x		
8T	Things are heating up...& cooling down	x	x	x	x	
9	Disturb an ionic solid in water	x	x	x	x	
10	More practice disturbing heat & concentration	x	x	x	x	
11T	Expanding and shrinking the container	x	x	x	x	x
12	Practice disturbing pressure & concentration	x	x	x	x	x
13T	A new target	x	x	x	x	
14	On your own	x	x	x	x	
15	Decrease the pressure 3 ways	x	x	x	x	
SA1	Disturb H_2 to ↑ $[NH_3]$	x	x	x		
SA2	Disturb H_2 to ↑ $[N_2]$	x	x	x		
SA3	Disturb heat to ↑ $[NH_3]$	x	x	x	x	
SA4	Disturb pressure to ↑ $[NH_3]$	x	x	x		x
SA5	Add particles to shift right	x	x	x		
SA6	Remove particles to shift right	x	x	x		
SA7	Add heat to shift left	x	x	x	x	
SA8	Remove heat to shift left	x	x	x	x	
SA9	Disturb heat to ↑ pressure	x	x		x	x
SA10	↑ dissociations of an ionic solid	x	x	x	x	
SA11	Disturb pressure to ↑ $[H_2]$	x	x	x		x
SA12	Disturb pressure with no shift in equilibrium	x	x			x

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