

Catalytic Spectrum Show Worksheet

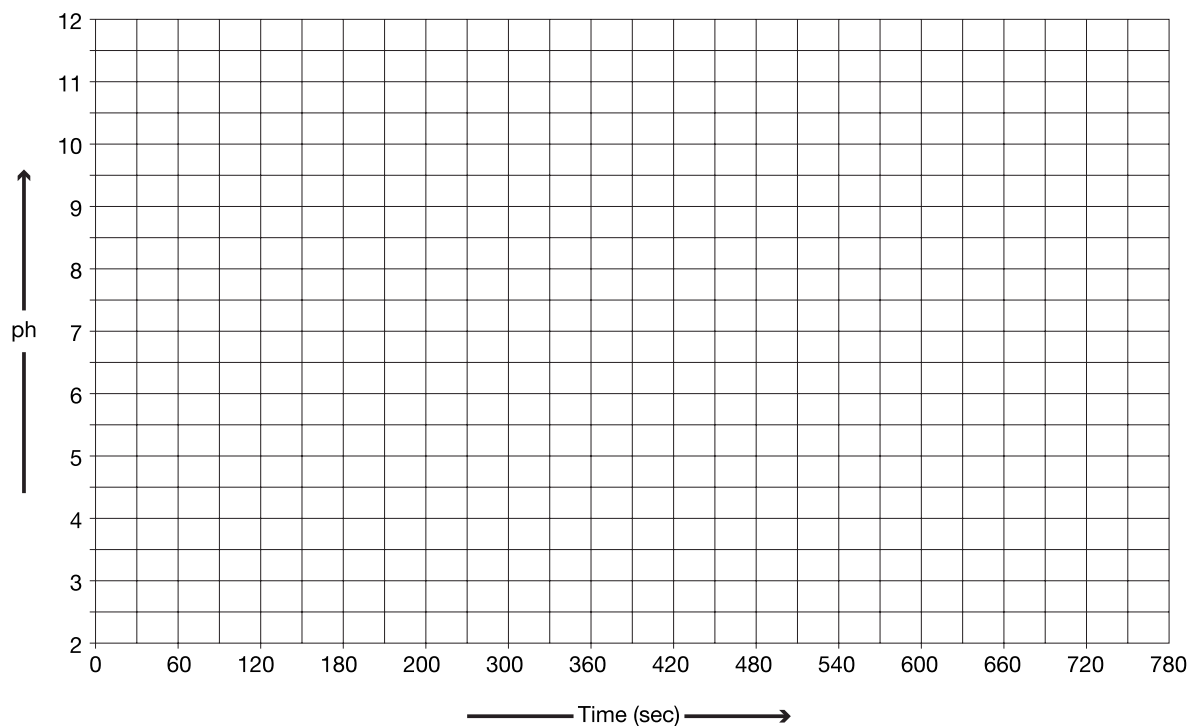
Questions

1. Using a timer, record in the Data Table the time each color change occurs, corresponding to the chart colors.

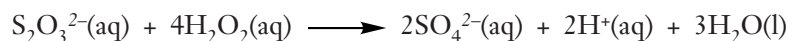
Solution Color	pH	Catalyzed Time (sec)	Uncatalyzed Time (sec)
Purple	10.0	0	0
Blue	9.0		
Green	8.0		
Light Green	7.0		
Yellow	6.0		
Orange	5.0		
Red-orange	4.0		

2. On the graph below, plot pH versus time for both the catalyzed and the uncatalyzed reaction.

ph vs. Time



3. The overall balanced equation for this oxidation–reduction reaction is



Write the half-cell reactions for oxidation and for reduction.