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## The Fantastic Four-Color Oscillator **Demonstration Worksheet**

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	Secussion Questions  Write the chemical equation for the overall reaction and describe what is happening.
2.	This oscillating reaction mechanism involves two competing processes. Process A involves ions and two-electron transfers and process B involves radicals and one-electron transfer.
	<ul><li>a. What determines the dominant process at any given time?</li><li>b. Why do oscillations occur?</li></ul>
3.	What is the name of the indicator used in this experiment?
4.	The reaction oscillates between Processes A and B, triggered by changes in bromide ion concentration. During these processes cerium and ferroin also oscillate causing several color changes. Explain chemically what was happening between the cerium and iron as the following colored solutions were observed?  a. Green solution:
	b. Blue solution:
	c. Violet solution:
	d. Red solution: