For analysis of results II, use the following information and you can make one graph with 4 distinct lines.

		Time (min)			
% Light Transmittance	**Cuvette**	0	5	10	15
	Unboiled/dark	31.3	32.5	35.5	34.8
	Unboiled/light	32.7	24.5	63.7	65.1
	Boiled/light	32.7	32.9	33.1	32.5
	No chloroplasts/light	31.3	31.3	31.3	31.3

Analysis:

Conclusion:

1. What is the function of DPIP in this experiment?
2. What molecule found in chloroplasts does DPIP "replace" in this experiment?
3. What is the source of electrons that will reduce DPIP?
4. What was measured with the spectrophotometer in this experiment?
5. What is the effect of darkness on the reduction of DPIP? Explain.
6. What is the effect of boiling the chloroplasts on the subsequent reduction of DPIP? Explain.
7. What reason can you give for the difference in the percentage of transmittance between the live chloroplast that were incubated in the light and those that were kept in the dark?
8. Design a controlled experiment to test the effect of some variable factor on photosynthesis.