

Leading Questions

- 1) What is the actual catalytic mechanism discussed in the paper? How does it differ from the mechanism that you proposed at the end of the last class period?
- 2) How does the mechanism differ from other systems that use silanes to reduce alkyl halides?
- 3) How does one calculate turn-over number (TON)? Calculate the TON for one of the specific experimental procedures in the paper.
- 4) What are Schlenk techniques? What is the purpose of using a J. Young tube? How is the J. Young tube used in this study?
- 5) What types of magnetic resonance experiments are used in this study? Assign all of the NMR spectra associated with one of the Ir complexes in the paper.