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The Crystal Forest Worksheet

Discussion Questions

- 1. Describe what happened in this activity.
- 2. The porous paper promoted both capillary action and evaporation. How might this facilitate the growth of crystals?
- 3. The bluing solution contains Prussian blue in two forms, one soluble and one insoluble. The soluble form is KFe^{III}Fe^{II}(CN)₆, and the insoluble form is Fe^{III}₄[Fe^{II}(CN)₆]₃. These react with ammonia to produce KNaFe^{II}Fe^{II}(CN)₆ and Na₄Fe^{II}₄[Fe^{II}(CN)₆]₃, respectively. Has the Prussian blue been oxidized or reduced by the ammonia? These reactions are shown in the *Background* section.
- 4. Write three testable questions that can be answered by modifying your current set-up and performing an experiment.

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