

# Paramagnetic Transition Metal Ions

## Electron Configuration

### Introduction

Several transition metal salts are affected by a strong magnet. Students are generally familiar with the fact that metallic iron is magnetic, but the science behind this observation is not necessarily understood. Paramagnetic salts generally contain transition metal ions that have at least one unpaired electron in their electron configuration. In this demonstration, a neodymium magnet is used to deflect small v-shaped chambers, containing paramagnetic transition metal salts.

### Concepts

- Paramagnetism
- Diamagnetism
- Electron configuration
- Orbitals

### Materials

Calcium sulfate,  $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ , 4 g  
Copper(II) sulfate,  $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ , 4 g  
Manganese(II) sulfate,  $\text{MnSO}_4 \cdot \text{H}_2\text{O}$ , 4 g  
Zinc sulfate,  $\text{ZnSO}_4 \cdot 7\text{H}_2\text{O}$ , 4 g  
Dowel rod with hooks, 2  
Ion Identification Card Sheet  
Mega magnet

Pipet elbows, 4  
Pipets, plastic, 8  
Ring stand  
Scissors  
Thread, 6-in., 4  
Utility clamps, 2  
Wetco® dots, 4 sets

### Safety Precautions

*Copper(II) sulfate is a skin and respiratory irritant and is moderately toxic by ingestion and inhalation. Manganese(II) sulfate is a body tissue irritant. Zinc sulfate is an irritant and is slightly toxic. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Please review current Material Safety Data Sheets for additional safety, handling, and disposal information. Wash hands thoroughly with soap and water before leaving the laboratory.*

### Preparation

1. Use scissors to cut the stems of two pipets 1" from the tip of the pipet. The pipets should fit snugly around the pipet elbow (see Figure 1).
2. Fill each bulb of the two pipets with 2 g of copper(II) sulfate,  $\text{CuSO}_4$ .
3. Slip the filled pipet stems over the plastic elbow (see Figure 2).
4. Repeat steps 1–3 using manganese(II) sulfate,  $\text{MnSO}_4 \cdot \text{H}_2\text{O}$ , zinc sulfate,  $\text{ZnSO}_4$ , and calcium sulfate,  $\text{CaSO}_4$ .
5. Cut four six-inch pieces of thread. Tie a piece of thread around the elbow of each pipet assembly.
6. Clamp the dowel rods to the utility clamps (see Figure 3).
7. Attach the utility clamps (with dowel rods) to the ring stand (see Figure 4).



Figure 1.

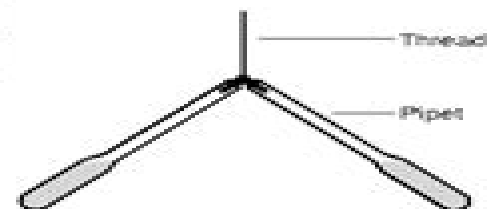


Figure 2.

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web oct 3 2021 agricultural or farm machinery refers to complex machines and implements used to carry out agricultural operations examples include tractors bulldozers shells dryers and incubators the most important tool or machine on the farm which is used to work with many agricultural implements is a tractor devices of farm machinery are

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web oct 8 2020 the use of machines in doing various work started during the industrialization period in the middle ages culminated in the contemporary time understandably technology advanced and various types of machines for doing various work in the farm with automated technology was introduced with these machines a lot of work can be accomplished in

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web jun 1 2019 a tractor is an important farm vehicle agricultural implements can be towed behind or mounted on the tractor and a tractor may provide a source of power if the implement is mechanized a farm tractor is used for pushing agricultural machinery for plowing tilling disking harrowing planting and similar tasks there are two types