

# Drawing Like da Vinci

## Data Tables

### Part A. Properties of Iron(II) and Iron(III) Solutions

Product	Appearance and Color	Evidence of Physical or Chemical Change
Iron(II) Solution		
Iron(III) Solution		

### Part B. Making Ink

Product	Appearance and Color	Evidence of Physical or Chemical Change
Iron(III) Tannate		
Iron(III) Tannate + Acacia		

## Post-Lab Questions

- In Part A, hydrogen ions from the vinegar reacted with the iron in the steel wool to produce iron(II) ions. What evidence indicated that hydrogen gas was also produced in this chemical reaction?
- In Part A, the iron(II) ions reacted with hydrogen peroxide to produce iron(III) ions. Is this a physical or chemical change? Give evidence for your answer.
- What was the purpose of adding acacia to the mixture? How much acacia seemed to work best in producing a smoothly flowing ink?