Flame Test Colors

http://chemistry.about.com/library/weekly/aa110401a.htm

Color	Metal		
	<i>Carmine</i> : Lithium compounds. Masked by barium or sodium.		
Red	Scarlet or Crimson: Strontium compounds. Masked by barium.		
	Yellow-Red: Calcium compounds. Masked by barium.		
Yellow	Sodium compounds, even in trace amounts. A yellow flame is not indicative of sodium unless it persists and is not intensified by addition of 1% NaCl to the dry compound.		
White	White-Green: Zinc		
Green	 <i>Emerald</i>: Copper compounds, other than halides. Thallium. <i>Blue-Green</i>: Phosphates, when moistened with H₂SO₄ or B₂O₃. <i>Faint Green</i>: Antimony and NH₄ compounds. <i>Yellow-Green</i>: Barium, molybdenum. 		
Blue	 Azure: Lead, selenium, bismuth, CuCl₂ and other copper compounds moistened with hydrochloric acid. Light Blue: Arsenic and come of its compounds. Greenish Blue: CuBr₂, antimony 		
Violet	Potassium compounds other than borates, phosphates, and silicates. Masked by sodium or lithium. <i>Purple-Red</i> : Potassium, rubidium, and/or cesium in the presence of sodium when viewed through a blue glass.		

Color of Ions in aqueous solution

Name	Formula	Color
Alkali metals	M ⁺	None
Alkaline earth metals	M ²⁺	None
Scandium (III)	Sc ³⁺	None
Titanium (III)	Ti ³⁺	Violet
Titanyl	TiO ²⁺	None
Vanadium (II)	V ²⁺	Lavender
Vanadium (III)	V ³⁺	Dark grey/green
Vanadyl	VO ²⁺	Blue
Pervanadyl	VO ₂ +	Yellow
Metavanadate	VO ₃ ⁻	None
Orthovanadate	VO4 ³⁻	None
Chromate	CrO ₄ ²⁻	Yellow
Dichromate	$Cr_2O_7^{2-}$	Orange
Manganese (II)	Mn ²⁺	Light pink
Manganate (VII) (Permanganate)	MnO ₄ ⁻	Deep violet
Manganate (VI)	MnO4 ²⁻	Dark green
Manganate (V)	MnO4 ³⁻	Deep blue
Iron (II)	Fe ²⁺	Light green
Iron (III)	Fe ³⁺	Yellow/brown
Cobalt (II)	Co ²⁺	Light red
Nickel (II)	Ni ²⁺	Light green
Nickel-ammonium complex	$Ni(NH_3)_6^{2+}$	Lavender/blue
Copper (II)	Cu ²⁺	Blue
Copper-ammonium complex	Cu(NH ₃) ₄ ²⁺	Royal Blue
Zinc (II)	Zn ²⁺	None
Silver	Ag⁺	None

http://en.wikipedia.org/wiki/Colors_of_chemicals

Color of Salts

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Name	Formula	Color	Picture
Copper (II) sulfate	CuSO ₄	Blue	
Copper (II) sulfate pentahydrate	CuSO₄ · 5H₂O	Blue	
Cobalt (II) chloride	CoCl ₂	Deep blue	
Cobalt (II) chloride hexahydrate	CoCl ₂ · 6H ₂ O	Deep magenta	
Manganese(II) chloride tetrahydrate	MnCl ₂ · 4H ₂ O	Pink	
Copper(II) chloride dihydrate	$CuCl_2 \cdot 2H_2O$	Blue-green	
Nickel(II) chloride hexahydrate	NiCl ₂ · 6H ₂ O	Green	NiterBH stands