

Flame Test Lab

Directions: Watch the video of the known compounds. Take detailed observations. Then watch the video of the Unknown Compound. Take detailed observations. Compare your observations of the known compounds to the observations of the unknown compound. Use these observations to identify the unknown compound. Then fill out the Claim, Evidence, Reasoning boxes.

USE FULL SENTENCES FOR THE CER PORTION!

Flame Test of Known Compounds:

<https://youtu.be/NEUbAGw14k>

Flame Test of Unknown Compound:

<https://youtu.be/3hSmDnXJEGA>

Metal Ion	Symbol	Detailed Observations on Color
Lithium	Li^{1+}	
Sodium	Na^{1+}	
Potassium	K^{1+}	
Calcium	Ca^{2+}	
Strontium	Sr^{2+}	
Barium	Ba^{2+}	
Copper	Cu^{2+}	
Unknown		

CER Check List – Instructions on how to do a CER <https://tinyurl.com/ydfytu7y>

Claim	
Evidence	
Reasoning	<i>Hint! You should reference atomic absorption and emission!</i>