

Chemistry 20: Research Topics

Development of glassware /plastic-ware used in Chemistry

Work with a partner to present a 5 – 10 minute talk.

Information you need must include (but is not limited to):

1. History of invention of _____ (date, scientist, nationality, etc)
2. Original use of this glassware in chemistry
3. Other uses in chemistry (give specific examples to support) (maybe this glassware has been replaced by something new?)
4. Compare: costs, sizes, accuracy, materials used in making, etc. – use a minimum of 3 supply companies
5. Describe what the item is made with
 - Production of glass - include how glass
 - Withstands sudden changes to: pressure, temperature, etc
 - Production of plastics – include how plastic
 - Withstands sudden changes to: pressure, temperature, etc
6. Something to engage the audience in your presentation
 - ☐ Posters / pictures
 - ☐ Handouts, quiz, video, activity
 - ☐ Etc. Etc. - Don't be limited by my suggestions
 - ☐ DO not bore us!!
7. Extras???? – You come up with some information that is not asked for that relate to this topic
8. **Bibliography of references used in your research.** You must show evidence of research from both print materials as well as the Internet. A complete bibliography must be handed in to me.

Name _____

Topic _____

Research 1

Required Information	Exceeds expectations: Clear explanation of topic	Meets expectations – basic explanation of topic	Below expectations: little or no explanation of topic
History of invention	3	1-2	0
Original use of glassware in chemistry	3	1-2	0
Modern uses of glassware supported with examples	3	1-2	0
Comparison of ‘value’ from three companies	3	1-2	0
Glass production (resist changes to pressure, temperature, stress)	3	1-2	0
Plastic production (resist changes to pressure, temperature, stress)	3	1-2	0
Something to engage the audience	4-3	2-1	0
Total	22		
Comments:			
Communication - Speaking skills	Exceeds expectations – audience is captivated	Meets expectations –most of audience are attentive	Below expectations- audience has tuned you out
Eye contact with audience	2	1	0
Audible	2	1	0
Appropriate vocabulary	2	1	0
Appropriate length and on topic	2	1	0
Quality of questions asked by audience	3-2	1	0
Quality of answers provided by you	3-2	1	0
Total	14		
Comments:			
Bibliography	2	1	0

Total mark: _____ / 38