

Name: _____

Build Your Own Cyanoacrylate Fuming Chamber Project

Cyanoacrylate Fuming, also known as super glue fuming, is one way to process latent fingerprints. This method uses the cyanoacrylate found in superglue to adhere to oils in the fingerprint. For this project you will be creating your own fuming chamber, making an instructional video on how to use it, and demonstrating the results.

Safety Concerns: Cyanoacrylate should not be inhaled or come in contact with your eyes. Lab goggles must be worn when working on your fuming chamber (may be purchased or signed out from teacher.) Fuming chambers must be worked on in a well-ventilated area. Do not operate your fuming chamber without proper ventilation. Do not open your fuming chamber with your face directly above it.

Assignment: There are two parts to this assignment

1. Create a functioning cyanoacrylate fuming chamber.
2. Produce and record an interesting and engaging instructional video describing and showing the parts of your fuming chamber, how your fuming chamber successfully functions, and the results your chamber is able to produce.

Submission: Upload your video to YouTube and submit the link using the submission site on my website. Turn-in your rubric with your (and your partner's) name on it by the due date.

Due Date: September 18th, 2019 at the beginning of your class period. This will not be accepted late for any reason.

Rubrics:

Fuming Chamber

	5 points	4-3 points	2-1 points	0 points
Clarity	Developed print is very clear and could be easily used to identify an individual	Developed print is mostly clear and could possibly be used to identify an individual	Developed print is unclear and mostly would not be able to be used to identify an individual	No visible print is developed
Function	The purpose and function of all materials in the fuming chamber are clearly explained.	The purpose and function of all materials in the fuming chamber are partially explained	The purpose and function of all materials is not included. Only some materials are explained	The purpose and function of materials is not included
Construction- Materials	Appropriate materials were selected and creatively used/modified in ways that made them even better	Appropriate materials were selected but were only minorly modified	Appropriate materials were used but not modified	Inappropriate materials were selected and contributed to a product that performed poorly
Construction- Care Taken	Great care taken in the construction process so that the structure is neat and attractive	Construction was careful for the most part but 1-2 details could have been refined more	Construction has 3-4 details that could have been refined more	Construction appears careless and unattractive

Video

	5 points	4-3 points	2-1 points	0 points
Length	Video is between 5-10 minutes in length	Video is one minutes more or less in length	Video is two minutes more or less in length	Video is three minutes or more more or less in length
Content	Content is engaging, interesting, and results in the watcher fully understanding how the chamber was built, how it functions, and is able to clearly see the results (a fingerprint)	Content is average. The watcher mostly understands how the chamber was built, how the chamber functions, and is able to see the results (a fingerprint)	Content is below average. The watcher gains little understanding of how the chamber is built, how the chamber functions, and is not clearly able to see the results (a fingerprint)	Content does not educate the watcher. The watcher does not learn about the chamber nor is able to see the results (a fingerprint)
Explanation	Video fully explains the process from start to finish how the chamber works. Includes an explanation of all the parts, why they are included, and what they do.	Video mostly explains the process from start to finish how the chamber works. Includes an explanation of all the parts, why they are included, and what they do.	Video doesn't fully explain the process OR doesn't fully include an explanation of all the parts, why they are included, and what they do.	Very little to no explanation is provided in the video
Quality	Video shows high quality editing and organization. There are no long boring periods.	Video shows some effort went into editing and organization. Video could have benefited from additional editing or organization	Videos shows little effort went into editing and organization. Video was boring and disorganized.	Video was very poor quality and shows no effort went into editing or organization
Safety	All safety protocols were adhered to in the video and explained. No unsafe procedures are used/shown.	All safety protocols were adhered to in the video, but no explanation was provided.	-----	Safety protocols were not followed in the video