Plunge Freezer/Cryo Sample Preparation Practical Worksheet

Name:
Date:
Institution:

1. **(1 pt)** Fill in the following images with the appropriate components.





1. **(3 pts)** Describe the process of vitrification for cryoEM, and outline how it is accomplished using a plunge freezer?
2. **(3 pts)** Compare and contrast the purpose of glow discharging for negative stain vs cryogenic grid preparation.

1. **(3 pts)** Describe the how blot-free vitrification techniques may assist with specimen preparation.