

Design an Experiment

Names: _____

Class: _____

Criteria	Level			
	1	2	3	4
Communicate the concept of the experiment (purpose, hypothesis, etc.)	The main concept of the lab is communicated, the student would have some idea of what the experiment entails.	The concept of the lab is communicated, the student would understand the general idea of the experiment.	The concept of the lab is clearly communicated, the student would understand why the experiment is being done.	The concept of the lab is clearly communicated in detail, the student would fully understand the purpose of the experiment.
Include necessary information to perform the experiment (procedure, equipment, etc.)	Instructions are presented in some fashion, the student would need significant additional input to perform the experiment.	Instructions included, lacking some clarity, the student would need additional input to perform the experiment.	Instructions are clearly laid out, the student would need minimal additional input to perform the experiment.	Instructions are clearly and concisely laid out, the student would be able to perform the experiment with no additional input.
Show an understanding of key features of an experiment (variables, control, etc.)	Most components of the scientific method are present with some accuracy.	Most components of the scientific method are present, most are accurately implemented.	All components of the scientific method are present, most are accurately implemented.	All components of the scientific method are expertly implemented.
Include grade appropriate scientific information (observations, discussion, etc.)	Information presents or prompts near grade level scientific information, but is lacking in details.	Information presents or prompts near grade level scientific information with some detail.	Information presents or prompts grade level scientific information with appropriate detailing.	Information presents or prompts significantly detailed scientific information, requiring higher level thinking.
Present material in an aesthetic manner (formatting, spacing, etc.)	Document shows signs of consistency in formatting, and evidence of some consideration towards aesthetics.	Document has aspects that are uniformly formatted and some features that are aesthetically pleasing.	Document is mostly uniformly formatted and is aesthetically pleasing/presentable.	Document is uniformly formatted and is presented in a professional manner.

- Headings are uniform (size, style, etc.) and stand out appropriately
- Alignment is consistent (fonts, bullets, numbering)
- Document spacing is consistent, space on page is used appropriately
- Bullets and numbering used properly
- Image included with equipment (ideally single image, placed in an organized manner)
- Input lines, for student, are uniform (length, spacing)
- Data table uses cell shading and centering to increase aesthetics
- Document has been proof read to avoid spelling/typing errors
- Planning sheet included

Overall Thoughts: