**EE 185**

Homework Rubric

horizontal line

Homeworks should be a reflection of your learning and development. They should show careful thought and demonstrate methods learned in class. Rubrics for homework will change throughout the semester to reflect how things like organization should become second nature. Homeworks will be graded on the following scale:

|  |  |  |
| --- | --- | --- |
| **Category** | **Student Score** | **Grader Score** |
| **Organization** | | |
| **Basics** | **1/1** | **/1** |
| **Structure** | **2/2** | **/2** |
| **References** | **1/1** | **/1** |
| **Work** | | |
| **Effort** | **1.75/2** | **/2** |
| **Clarity** | **1.75/2** | **/2** |
| **Discussion** | **1.75/2** | **/2** |
|  |  |  |
| **Total** | **9.25/10** | **/10** |

**Problem 1:**

About me: I’m pretty average. I have a lot of ideas and goals that I don’t think I will ever be able to do all of them. I have always wanted to make a game, a song, a consumer product, a recipe, unique clothing, a crochet pattern, and a piece of art I am proud of. These goals have led me to learn many different things. I reposition my goals constantly so I am never completely sure what I’m aiming for. .

**Problem 2:**

video 1:

1. Explain what the video was about

The video showed the differences between AC and DC. It did this by showing how the particles were moving.

1. What did you learn from the video

Not that much but I did find the graphics very nice and useful to understand how the current works.

1. What else would you like to know? Ask new questions.

What is the actual frequency of the wall outlet because I have heard it was 60hz but he said 50hz.

Video 2:

a) Explain what the video was about

What a resistor is. Showing how a resistor can be visualized with water instead and how it restricts flow for current.

b) What did you learn from the video

Learning that an led max is 30ma rather than 20ma. The types of resistors and other names for variable resistors.

c) What else would you like to know? Ask new questions.

Where did the name potentiometer and Rheostat come from?

Which resistors are used in which scenarios?

Video 3:

a) Explain what the video was about

What capacitors are and how they work. That the charge is stored in the plates and the voltage will be whatever you charged it at.

b) What did you learn from the video

The charges are equal regardless of size (it goes with the less area).

c) What else would you like to know? Ask new questions.

What are the different types of caps?

Why can’t electrolyte caps be charged opposite?

**Problem 3:**

Provide a summary of what is the chapter about?

Learning from past experiences and growing because of them. Practice makes it so things can come naturally and you don’t have to think about what you are doing, it comes as a reflex. Relearning isn’t as good as testing and retrieving. Not all memorization is pointless because it makes things natural and faster to grasp new things.

2. Provide your reflections and learning about

a. What was interesting?

The fact that they agree that testing on memory is good as long as it isn’t pointless. The example of the neurosurgeon and how reflex is built from constant learning.

b. What was surprising?

Not that much other than that data like this exists but teachers still use the same techniques to try to teach. Such as the study that cramming doesn’t work but still making exams a large part of the grade rather than multiple smaller tests.

c. What are you learning from this chapter?

That learning means more than memorization but that doesn’t mean it doesn’t include it. That memorizing is the stepping stone to more complex/demanding tasks. You don’t start with a 5k.

d. What would you like to read more?

About the study on cramming and how badly it prepares for harder material such as in math where it gets built upwards.

Citation:

Brown, Peter C., et al. Make It Stick : The Science of Successful Learning, Harvard University Press, 2014. ProQuest Ebook Central, https://ebookcentral.proquest.com/lib/iastate/detail.action?docID=3301452.