Eliot moser Writing seminar 10/9/20 Jordan hanson

- (a) Knowing the orbits of the stars around the center of the galaxy, scientists use the orbits to calculate the mass of the object at the center of the galaxy. The object has the mass that is so large the mass has to be of a black hole.
- 1.) Scientists use the orbit of stars to calculate the mass of an object so large it is suspected to be a black hole
 - (b) Epidemiologists use a parameter called the reproduction parameter, R0, which is the number of new infections resulting from one new infected person.
 - 2.) Epidemiologists use a parameter, "the reproduction parameter" which is the number of new infections from one person.
 - (c) According to Newton's Laws of motion, things that have different masses and different shapes would still accelerate downward at the same rate when dropped.
 - 3.) Newton's law of motion states that different masses and shapes still accelerate downward at the same rate when dropped
- 2. Creating an outline. Create an outline of the following set of ideas, such that it describes how to determine optimal tomato growing conditions. Use the outline to write a well-organized paragraph describing the experiment. Submit both the paragraph and the outline.

Create a paragraph in your document.

- Ten tomato seedlings are obtained
- A patch in the garden is reserved with space for all ten
- A photo-sensor can be used to determine the light level at each spot in the patch
- Each tomato plant is given a different amount of water per day
- This whole process is done during the summer when the amount of sunshine is maximized

Outline:

For those learning to grow tomatoes ten is a good starting point, purchase ten tomato seeds available via amazon or grocery store. From here assuming you understand the basics of plant growth, you will have to plant your seeds in the reserved patch of your backyard or garden. For those who strive

for perfection a photo sensor can be used to determine the spot in your garden with the highest light levels. Daily each tomato will need water, daily watering optimizes growth and tomato size. Tomatoes grow in heat and sun so to avoid wasting your time only attempt to grow them in the summer.

Paragraph:

For beginners ten tomato seeds is a good place to start, obtain these via the internet or grocery store. From here the next step is to plant the seeds in the reserved patch of your garden or yard. If your life depends on the quickest growing largest tomato perhaps you should invest in a photo sensor. The photo sensor will detect which spot has more light coverage and is optimal for growth. In order to avoid embarrassment in the gardening community do not attempt to grow tomatoes anytime other than summer as they will not grow.

Week 2: Concise Writing 2

1. Hierarchy of detail and outlines. Choose from any of the 4 topics from slide 4 of the Week 2 Lecture Notes. Select 3-4 sources online and use them to create an outline with the appropriate hierarchy of details covering the subject. Submit the outline and a 200 word summary of the subject, written concisely and without ambiguous words or phrasing. Properly cite your sources.

Add the work to your document.

Outline:

In april of 2017 the EHT along with a time of Nasa owned satellites obtained the first ever picture of a black hole. Believed to be 6.5 billion times larger than the sun. Although scientists had theorized that by capturing their silhouettes against their glowing surroundings, they could take a picture of a black hole, the capacity to photograph an object so distant still eluded them. To take up the challenge, a team was formed to create a network of telescopes known as the Event Horizon Telescope, or EHT.

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Week 3: Technical Description 1

- 1. Removing ambiguous words. In the following sentences, remove or replace ambiguous words. Write the new sentences in your own document.
- When born, the baby was fairly heavy and really long.
- The baby grew really fast, by the time she was 1 year old, she was a lot longer.

2

3

1

4

- Radio transmission took a long while between the Earth and the Moon.
- A hiker walked the full 60 km trail in 4 days, making her average speed moderate.
 - 1. The baby was fairly long and heavy when born
 - 2. The baby continued to grow by the time she was 1 she was significantly longer
 - 3. A radio transmission takes a long time traveling between the earth and moon
 - 4. A hiker walked 60 kilometers in 4 days which is moderate speed.
- 2. Spatial and temporal detail, perspective. Recall the exercise we performed in class, in which we wrote our favorite recipe. In this exercise, explain to the reader from where you are gathering the ingredients, and the recipe. Thus, the result should be a tract of writing that would enable someone to prepare the dish using your kitchen and pantry. Notice how this requires you to pay attention to both time and space.

Upon entering my kitchen you will see the refrigerator teen feet in front if you, veer left in the direction of the grill and oven underneath the two large fans dangling from the ceiling. To your right at knee height is a set of drawers, pull the second one down, select a pan of your choosing and place the pan on the stove. Fill the pan with olive oil and make your way to the right towards the refrigerator. Once you are three inches from the fridge stop. Turn to the right again and take note of the off white pantry cabinets. Select the cabinet in the middle and behind a bag of rice is kosher gluten free chicken broth. If somehow you find regular chicken broth please discard this previously mentioned chicken broth and continue, if not bring the chicken broth to the fridge, select three eggs from the top shelf and make your way left then ninety degrees then forward towards the stove. To the top right are spices, select cumin and garlic, pour the broth into the pan and break the eggs into the pan. Spice the pan as you see fit and do not stir the eggs as this distracts from the point of the dish and renders all previous steps pointless. Once the egg yokes are solid you may enjoy a bowl of egg drop soup.

Week 4: Technical Description 2

1. Convert to passive voice.

Re-write the paragraph in your own document.

I measured the acceleration due to Earth's gravity, g, with a pendulum. First, I measured the length of my

pendulum to be 20 cm. Second, I hung my pendulum straight down and displaced the bob 5 cm to my right. I

released the pendulum and recorded the number of times it returned to the same position as it swung back and

forth for one minute. I calculated that it returned to its original position every 0.90 seconds. I inserted my results

2

The trials were conducted in a room with no air conditioning, and therefore no air flow. The average horizon- tal distance bacteria travel after a person sneezes was measured. First, a sample of 20 infected people was gathered. The category of dishes with the largest colonies were the ones corresponding to 8.0 meters. Third, once each subject felt the urge to sneeze, the subject was required to aim the sneeze down the line without covering their mouth. The height of each subject was required to be within 6 inches of 5 feet 6 inches tall. Second, petri dishes were arranged in 0.5 meter intervals out to 10.0 meters on the floor in front of the subject. Fourth, bacterial colonies were allowed to grow in the dishes for one week under ideal conditions. These results inform the epidemiology of spreading bacteria. The results show that when a person sneezes, it is possible to spread infection to someone who happens to be 8.0 meters away.

into the formula predicted by Newton's Laws. The result for g was 9.81 m/s . 2. Rearrange the sentences to have the proper hierarchy of detail.

Re-write a paragraph in your own document.

2

A pendulum was used to measure the earth's gravity. The length of the pendulum had to be precisely 20 cm. The pendulum was hung straight down and displaced the bob 5 cm to my right. The pendulum was released and the number of times it returned was recorded to the same position as it swung back and forth for one minute. Calculations showed that it returned to its original position every 0.90 seconds.

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