Name Date
DENTIFYING VARIABLES For each testable question,
<u>inderline</u> the independent variable, circle the dependent variable, and list 3 constant/control variables Then, write a hypothesis or prediction.
Independent Variable- One thing that the experimenter changes on purpose Dependent Variable- Something that changes as a result of the independent variable (often what is measured) Constant/Control Variable - Something kept the same on purpose
1. How does the <u>distance from an eye chart</u> affect the <u>number of letters</u> that are recognized on a line?
Constant/Control Variables: <u>eye chart, position of viewer, light in room</u> Hypothesis/Prediction:
2. How does the <u>amount of light</u> affect the <u>growth of a plant?</u> Constant/Control Variables: <u>type of plant</u> , <u>amount of water</u> , <u>type/amount of soil</u>
Hypothesis/Prediction:
3. How does the amount of oxygen in the water affect the 6yster population? Constant/Control Variables: temperature of water , location , time of year
Hypothesis/Prediction:
4. How will the amount of fertilizer used on a field affect the number of earthworms found there?
Constant/Control Variables: type of soil, temperature, amount of water
Hypothesis/Prediction:
5. How does the <u>length of a string</u> affect the <u>number of times a pendulum will swing</u> back and forth in 10 seconds?
Constant/Control Variables: mass of pendulum, distance pulled back, height of pendulum
Hypothesis/Prediction:
6. How does the size of a bicycle tire affect the distance it will travel when it is pedaled in a given number of times?
Constant/Control Variables: inflation of tire, force of pedal, terrain (grass vs. blacktop)
Hypothesis/Prediction: