Name
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 distance from an eye chart affect the number of letters that are recognized on a line?  Constant/Control Variables:
2. How does the amount of light affect the growth of a plant?  Constant/Control Variables:  Hypothesis/Prediction:
3. How does the amount of oxygen in the water affect the oyster population?  Constant/Control Variables:

2. How does the amount of li	ght affect the growth of a plant?
Constant/Control Variable	s:
Hypothesis/Prediction:	
3. How does the amount of o	xygen in the water affect the oyster population?
Constant/Control Variable	s:
Hypothesis/Prediction:	
4. How will the amount of fe	rtilizer used on a field affect the number of earthworms found there?
Constant/Control Variable	s:
Hypothesis/Prediction:	
5. How does the length of a sin 10 seconds?	string affect the number of times a pendulum will swing back and forth
Constant/Control Variable	s:
Hypothesis/Prediction:	
6. How does the size of a bid given number of times?	ycle tire affect the distance it will travel when it is pedaled in a
Constant/Control Variable	s:

Hypothesis/Prediction:

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.
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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 <b>amount of oxygen</b> in the water affect the <b>6yster population?</b> Constant/Control Variables: <b>temperature of water</b> , <b>location</b> , <b>time of year</b>
Hypothesis/Prediction:
4. How will the <b>amount of fertilizer</b> used on a field affect the <b>number of earthworms found</b> 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: