Biology 1

Experimental Design Worksheet

Name Date

Hour

Definitions: Define the following words and concepts related to the scientific method.

1. Hypothesis:	
2. Independent Variable:	
3. Dependent Variable:	
4. Control Group:	
5. Experimental Groups:	
6. Constants:	
7. Trials:	
8. Variables:	
Practice: Write a hypothesis for each of the states experimental group.	ments and identify the variables, control group, and
1. Cigarette smoking increases the risk of lung car	ncer.
Hypothesis: If,	then
Independent Variable:	Dependent Variable:
Control Group:	Experimental Group:
2. Eating breakfast increases performance in scho	ol.
Hypothesis: If	then
Independent Variable:	Dependent Variable:
Control Group:	Experimental Group:
3. Hummingbirds are attracted to the color red.	
Hypothesis: If,	then
Independent Variable:	Dependent Variable:

Experimental Group:
, then
Dependent Variable:
Experimental Group:
efore charging makes it last longer.
, then
Dependent Variable:
Experimental Group:
chool.
, then
Dependent Variable:
Experimental Group:
esign an experiment.
ginia Beach to investigate the recent shark attacks off the resort's coand three graduate student assistants to help him. A helicopter has almould he need one.
ave come up with for the recent shark attacks, then
, then