	¥	Y	V	W	N. C.	V	¥	V	V	V	V
	ime	estion, the	ere is one:	EXPCI	Riment oswer and a er section sh	QL v	Date	oles th that	(Bear)		TA TA
in:	the colon		nent	er section st		filled in with nswer 1	obstitutes in the control of the con	colori nswer 2	Ansı	wer 3	
1	Dylan is designing an experiment to investigate how sound waves are affected by the type of medium through which they travel. Which is the independent variable?						und waves BLUE		medium GREEN		length DWN
2	birds ;	Doug wanted to find out what kind of food winter birds preferred. If he designed an experiment to answer this question, what would the independent variable be?					pe of bird BLUE		nes of day /ELLOW		of food ED
\$	Maria is doing an experiment to see if peaches rot more quickly than oranges. What is the dependent variable?					1	peaches BROWN	ĺ	oranges GREEN	rate o	
ŀ	Three baseball players investigate to see who can throw a baseball the farthest. They mark off an area on the playground for their investigation. Which should they keep constant?					1	owing spot	thro	wing order	color o	
,	A student hypothesizes that green algae will grow fastest when exposed to blue light. To test this hypothesis, the student should design an experiment with which dependent variable?						ue light URPLE		een algae ROWN	grov BLA	
	•	ents plan t average m		•	uges to erent areas	heigh	t of gauge	location	on of gauge	brand of	gauge

YELLOW

type of cat

YELLOW

amount of water

BROWN

safety

GREEN

independent

BLUE

RED

brand of food

RED

type of soil

BLACK

a comparison

YELLOW

dependent

compare average monthly rainfall in different areas

of their state. Which of these variables is the

independent variable?

In an experiment designed to determine if a specific

brand of cat food is causing cats to meow

excessively, what is the dependent variable?

Chelsea wants to know which brand of potting soil

is most nutritious for plants. She decides to design

an experiment to test different types of soil. Which

of the following should be constant?

A scientific experiment must have a control as part of the design so that you have

To determine the boiling point of an unknown liquid,

a student heats 10 mL of the liquid in a test tube

and records the temperature every minute for 20

minutes. Time is what variable?

6

7

8

10

ORANGE BROWN @ 244 Tammullorehouse

BLACK

meowing

PURPLE

color of the pot

ORANGE

good data

RED

control

