Student's Name	
THINKING WITH SCIENCE	
Observation Quiz	•
Lesson 12 (The Pale Leaf)	
1. The fact that Leaf B is pale is a:	
A. manipulated variable	
B. result	
C. controlled variable	
D. none of the above	
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2 William 24 4 - 1 4 1 1 1 - 1	
2. Why aren't the leaves the manipulated variable?	
A. because they are the same	
B. because they are not both green	
C. because they come from the same plant	
D. all of the above	
3. What is one word that names the manipulated variable?	
A. leaf	
B. liquid	
C. water	
D. jar	
<ul> <li>4. How do you know that the jar lids aren't the manipulated va</li> <li>A. because they are both the same</li> <li>B. because they are both yellow</li> <li>C. because they are both on the jars</li> <li>D. none of the above</li> </ul>	ariable?
5. What is the largest number of manipulated variables an exp	animant abould include?
A. 1	eriment should include?
B. 2	
C. 3	
D. there is no limit.	
6. What is the largest number of controlled variables that an ex	rnonimont about dinatudo?
A. 1	cperiment should include?
B. 5	
C. 12	
D. there is no limit	
	,

	7. The control question for "Does A contain any water?" would be:
	A. does A contain only water?
	B. does A contain anything else?
	C. does B contain any alcohol?
	D. Does B contain any water?
	8. The word "tentative", when used to describe a conclusion, means:
	A. temporary
	B. not final
	C. not finished
	D. all of the above
	9. If a conclusion is supported by the data, and not refuted by the data, it can be can
	A. final
	B. reliable
	C. inconclusive
	D. none of the above
	10. How do you know that water doesn't dissolve chlorophyll?
	A. because chlorophyll is green
	B. because Liquid A isn't green
	C. because Liquid A contains only water
	D. all of the above
	11. Why did the lady's plant turn brown?
	A. because alcohol dissolves chlorophyll
	B. because people poured their cocktails in her flower pot
	C. because alcohol is not good for plants
	D. all of the above
٠	12. The steps in the scientific method include:
	A. forming a hypothesis and drawing a conclusion
	B. forming a hypothesis, gathering data, and drawing a conclusion
	C. gathering data and forming a hypothesis
	D. all of the above.
]	13. The outermost layer of a geranium leaf cell is called the:
	A. cell wall
	B. cell membrane
	C. nucleus
	D. none of the above.

A. fir B. hemlock C. cottonwood D. cedar  15. How does a pulp mill make white paper from brown pulp: A. they grind it up B. they bleach it C. they dry it D. they squeeze the water out of it  16. What word describes how a pulp mill smells? A. stink B. sweet C. sour D. all of the above  17. What kind of alcohol is in wine and beer? A. ethyl B. methyl C. isopropyl D. butyl  18. What living organism can make ethyl alcohol: A. bacteria B. mold C. yeast D. mushrooms  19. To say that the brain damaging effects of all alcohols is "cumulative" m A. they all damage brain cells B. any brain cells killed by alcohol are not gotten back C. they cloud the brain D. all of the above.  20. One of the first signs of alcohol damage to brain cells is: A. nervousness B. trembling C. memory loss D. bleeding	B. hemlock C. cottonwood D. cedar  5. How does a pulp mill make white paper from brown pulp: A. they grind it up B. they bleach it C. they dry it D. they squeeze the water out of it  6. What word describes how a pulp mill smells? A. stink B. sweet C. sour D. all of the above  7. What kind of alcohol is in wine and beer? A. ethyl B. methyl C. isopropyl D. butyl  8. What living organism can make ethyl alcohol: A. bacteria B. mold C. yeast D. mushrooms  9. To say that the brain damaging effects of all alcohols is "cumulative" mea A. they all damage brain cells B. any brain cells killed by alcohol are not gotten back C. they cloud the brain D. all of the above.  0. One of the first signs of alcohol damage to brain cells is: A. nervousness B. trembling C. memory loss		best tree for making par	per in Washing	gton is the:		
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B. any brain cells killed by alcohol are not gotten back C. they cloud the brain D. all of the above.  20. One of the first signs of alcohol damage to brain cells is: A. nervousness B. trembling C. memory loss	B. any brain cells killed by alcohol are not gotten back C. they cloud the brain D. all of the above.  O. One of the first signs of alcohol damage to brain cells is: A. nervousness B. trembling C. memory loss	19. To s	ay that the brain damag	ing effects of a	all alcohols is	"cumulative"	" me
C. they cloud the brain D. all of the above.  20. One of the first signs of alcohol damage to brain cells is: A. nervousness B. trembling C. memory loss	C. they cloud the brain D. all of the above.  O. One of the first signs of alcohol damage to brain cells is: A. nervousness B. trembling C. memory loss		A. they all damage brain	cells			
D. all of the above.  20. One of the first signs of alcohol damage to brain cells is:  A. nervousness B. trembling C. memory loss	D. all of the above.  O. One of the first signs of alcohol damage to brain cells is:  A. nervousness  B. trembling  C. memory loss	]	3. any brain cells killed	by alcohol are	not gotten ba	ck	
20. One of the first signs of alcohol damage to brain cells is:  A. nervousness B. trembling C. memory loss	0. One of the first signs of alcohol damage to brain cells is:  A. nervousness B. trembling C. memory loss	(	C. they cloud the brain				
A. nervousness B. trembling C. memory loss	A. nervousness B. trembling C. memory loss				e e		
A. nervousness B. trembling C. memory loss	A. nervousness B. trembling C. memory loss	20. One	of the first signs of alc	ohol damage t	o brain cells is	s:	
C. memory loss	C. memory loss						
C. memory loss	C. memory loss	. ]	3. trembling				
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Students's N	ame _	Answer	Key
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## **OBSERVATION QUIZ FOR "THINKING WITH SCIENCE"**

Quiz Number

<b>V D G</b> i	m		4012	, , , , , , ,	, , , , , , , , , , , , , , , , , , ,		
Quiz for Lesson 12							
1.	A	B	C	D	E		
2.		В	C	D	E		
3.	Å	B	C	D	E		
4.		В	<b>c</b> (	D	E		
<b>5.</b>		В	C	D	E		
6.	<b>A</b>	В	C	<b>(D)</b>	E		
7.	A	B	C	<b>©</b>	E.		
8.	<b>A</b>	В	C	<b>(D</b> )	E		
9.	A	B	C	D	E		
10.	<b>A</b>	B	C	<b>(D)</b>	E		
11.	<b>A</b>	В	C	<b>(D)</b>	E		
12.	A	B	C	D	E		
13.	<b>(A)</b>	В	C	D	E		
14.	A	B	0	D	E		
15.	A	B	C	D	E		
16.	<b>(A)</b>	B	C	D	E		
17.	(4)	В	C	D D	E		
18.	A	В	<b>©</b>	D	E		
19,	A	B	· C	ח .	E		

20. A B C D E