Teacher	Period:	Grade	·	Date	Y	our initials	S		
PLANTS UNIT PRE-	TEST								
1. Answer these questions about what happens when a plant grows.	Do you thin (solids, liqu going into the answer bell Yes	uids, or ga the plant?	ases) a ' (circle	re	going into answer b	u think that <b>energy</b> is into the plant? (circle one ir below)  No I'm not sure forms of energy do you			
	What mate going into			nk are			ergy do you o the plant?		
	Do you think that <b>materials</b> (solids, liquids, or gases) are coming out of the plant? (circle one answer)				Do you think that <b>energy</b> is coming out of the plant? (circle one answer below)				
	Yes No I'm not sure What <b>materials</b> do you think are coming out of the plant?			Yes No I'm not sure What forms of energy do you think are coming out of the plant?					
v	How do you think that <b>materials</b> are changing inside the plant?				How do you think that <b>energy</b> is changing inside the plant?				

What are you **not sure about** in your answers? Explain what you need to know to answer these questions better.

2. Answer these true-false questions:

True	False	Carbon is a kind of atom.
True	False	Carbon is a kind of molecule.
True	False	There is carbon in a tree's leaves.
True	False	There is carbon in a tree's roots.
True	False	There is carbon in the wood of a tree's trunk.

- 3. Grass needs energy to live and grow. How does it get its energy? Which of the following statements is true? Circle the letter of the correct answer.
- a. ALL of the grass's energy came originally from sources outside the plant, OR b. SOME of the grass's energy was made by the plant as it grew.

Circle the best choice to complete each of the statements on the next page about possible sources of energy from outside the grass.

How much of the grass's energy come from AIR?	All or mos	t Some	None
How much of the grass's energy come from SUNLIGHT?	All or mos	t Some	None
How much of the grass's energy come from WATER?	All or mos	t Some	None
How much of the grass's energy come from SOIL NUTRIENTS	S? All or mos	t Some	None
Explain your choices. How does the grass get its energy?			
4. A mature oak tree can have a mass of 500 kg, or more, eve removed. Yet it starts from an acorn that weighs only a few gr increase in mass come from?  Which of the following statements is true? Circle the letter of the	ams. Where d	id this huge	
a. ALL of the increase in mass came from matter that was orig			2
b. SOME of the increase in mass came from matter that the tre			-
Circle the best choice to complete each of the statements abo outside the tree.			ss from
How much of the increase in dry mass comes from the AIR?	All or most	Some	None
How much of the increase in dry mass comes from SUNLIGHT?	All or most	Some	None
How much of the increase in dry mass comes from WATER?	All or most	Some	None
How much of the increase in dry mass comes from SOIL NUTRIENTS?	All or most	Some	None
Explain your choices. How does the oak tree gain mass as it	arows?		
5. When a tree is alive it has energy stored in its living parts (re	oots trunk bra	nches and	areen
leaves). When the tree dies all the parts are still there (includir much of the energy stored in the living tree is still there in the	ng fallen brown		•
a. ALL of the energy b. MOST of the energy c. SOME of the energy			
d. A LITTLE of the energy e. NONE of the energy			
Explain your answer. What kinds of energy are stored in the living tree? Where did	they come fron	า?	
What kinds of energy are stored in the dead tree (if any)? How	w are they conr	nected to th	e
energy in the living tree?			