Name			

Period	
Due date	

COMPOST PROJECT

WHAT IS COMPOST?

Compost is rich, dark soil produced from the breakdown of kitchen scraps and yard waste. Gardeners often call compost "Black Gold" because it is so rich in minerals. Compost creates excellent soil for gardening and landscaping. The decomposition process is fueled by millions of microscopic bacteria and fungi (decomposers) living in your pile. A healthy compost pile has no odor, just a nice earthy smell.



In this project you will contribute to the class compost pile. Each week you will bring in ONE GREEN and ONE BROWN to add to the pile. You will also make journal entries once a week as you observe changes in the compost pile.

GREENS (50%) Break down fast	BROWNS (50%) Break down slow
Fruits Vegetables Grass clippings Coffee grounds Tea bags (no staple) Egg shells (rinsed) Manure (Cow, horse, chicken) Bread Rice Pasta (no sauce or oil) Landscape trimmings	Fall leaves Twigs (broken up) Pine needles Hay Sawdust Paper (no colored inks) Paper towels Napkins Dryer lint Hair (human, dog, cat) Corrugated cardboard

Meat Dairy (milk, cheese, yogurt) Cat or dog poop Fish Oils, butter, or grease Bones

COMPOST JOURNAL (WEEK #/)

	Date	Temperature of pile	(Des
		-	
	GREEN you brought in	BROWN you brought in	
	NIA	NA	
	5 other items added to pile	Green (G) or Brown (B)	Look of
	5		
-			
			С

OBSERVATIONS
(Describe each of the following)
This was the weather
This week's weather
Look of the pile and its ingredients
Changes from last week
NA
14/4
Total Constitution
Insects & animals
Aroma & texture
NA

COMPOST JOURNAL (WEEK#2)

Date Temperature of pile	OBSERVATIONS (Describe each of the following)
GREEN you BROWN you brought in	This week's weather
5 other items Green (G) or	
added to pile Brown (B)	Look of the pile and its ingredients
	Changes from last week
	Insects & animals
	Aroma & texture

COMPOST JOURNAL (WEEK#3)

Date	Temperature of pile	OBSERVATIONS (Describe each of the following)
GREEN you brought in	BROWN you brought in	This week's weather
5 other items added to pile	Green (G) or Brown (B)	Look of the pile and its ingredients
		Changes from last week
		Insects & animals
		Aroma & texture

COMPOST JOURNAL (WEEK#4)

	Y.	
Date	Temperature of pile	OBSERVATIONS (Describe each of the following)
GREEN you brought in	BROWN you brought in	This week's weather
5 other items added to pile	Green (G) or Brown (B)	Look of the pile and its ingredients
		Changes from last week
		Insects & animals
		Aroma & texture
	<u> </u>	

ANALYSIS & CONCLUSIONS

1. What impr	essed you	the mo	ost abou	ıt comj	posting?						
2. Which iten	n did you	observ	e that d	ecomp	osed Q\	JICKL	Y?				
3. Which iten	n did you	observ	e that d	id NO	Γ decon	npose?	7				
4. On a scale	of 1 to 10	, how v	would y	ou rate	e your c	ompost	ing expe	erience	? (circ	le one)
PLEASE NEVE DO THIS AGA		2	3	4	5	6	7	8	9	10	WOW! I CAN'T WAIT TO COMPOST AT HOME!
5. Using the i	nformatio	n on th	e front	page,	identify	each it	em as:				
	G (G	reen)			B (Bro	own)		N (No	ot to be	comp	oosted)
	TWIGS						CHEE	SE			
	MEAT						FRUIT	TS.	-	 -2	
	DOG PO	OOP					GRAS	S		-	
	BREAD)					BUTT	ER		===	
	VEGET	ABLE	S				NAPK	INS	Σ		
	FALL L	EAVE	S				HAIR		-	→ 2	
6. Which iten	ns break d	own qı	iickly?	(circle	one)		GRI	EENS		BR	OWNS
7. Which iten	ns break d	own sl	owly?			GREE	ENS	BF	ROWN	S	

READING – Read each of the following passages and answer the corresponding questions

Composting Basics

All composting requires three basic ingredients:

- Browns This includes materials such as dead leaves, branches, and twigs.
- Greens This includes materials such as grass clippings, vegetable waste, fruit scraps, and coffee grounds.
- Water Having the right amount of water, greens, and browns is important for compost development.

Your compost pile should have an equal amount of browns to greens. The brown materials provide carbon for your compost, the green materials provide nitrogen, and the water provides moisture to help break down the organic matter.

 8. What do greens pro	ovide to the co	mpost pile?	
A. Nitrogen	В. Са	arbon	C. Moisture
 9. Coffee grounds are	considered a		
A. Green	B. Brown	C. Not to be	composted

Benefits of Composting

- Enriches soil, helping retain moisture and suppress plant diseases and pests.
- Reduces the need for chemical fertilizers.
- Encourages the production of beneficial bacteria and fungi that break down organic matter to create humus, a rich nutrient-filled material.
- Reduces methane emissions from landfills and lowers your carbon footprint.

Composting Reduces Waste

Organic wastes, such as food waste and yard waste, make up 25 to 50% of what people throw away. While you may not be able to compost all of the organic waste you generate, composting can significantly cut down on your overall trash.

Compost is Great for Plants, Lawns, and Gardens

- Increases organic matter in your soil.
- Helps plants absorb nutrients already in your soil and provides some extra nutrients too.
- Makes clay soils more airy and helps them drain better.
- Makes clay and other soils more friable, which means they'll be easier to crumble and dig in.
- Helps sandy soils retain water that normally runs through.
- Helps balance the pH of your soil.
- Can extend the growing season by moderating soil temperature.
- Can even help control soil erosion!

Composting is Fun!

Okay, maybe "satisfying" is a better term. When you compost, you're much more aware of trash in general, and you're truly completing the recycling loop.

0. Give any 2 benefits of compo	osting:	
11. What is the other name	e for compost that occ	urs in nature?
A. Nitrogen	B. Carbon	C. Humus
12. What % of garbage is	actually compostable t	food and yard waste?
A. 10 to 20%	B. 25 to 50%	C. 75 to 100%
3. How does compost help CLA	Y soil?	
4. How does compost help SAN	DY soil?	

Uses of Compost

Mulch

In nature we see plants and trees drop leaves that accumulate at their bases. Every year, a new layer is added while the old layers start to decompose. This is leaf mold, and it is a form of compost. What nature is doing is providing a protective layer over the roots of plants. This layer of vegetative material protects the bare soil during the summer months by reducing soil temperature, suppressing weed growth and reducing soil moisture loss. Our compost can do the same thing in our gardens and landscapes.

- _____ 15. How does compost protect the soil?
 - A. Reduces soil temperature
 - B. Suppresses weed growth
 - C. Reduces moisture loss
 - D. A, B, & C