# AVVEITURES II COMPOSTIIG! 




I JUST DON'T GET IT, REX! WE USE THE SAME WATER, AND WE LIVE ON THE SAME STREET,

BLT OUR NEIGHBOR'S YARD IS LUSH AND GREEN WHILE OURS IS BARREN AND DEAD LOOKING!


HEIGHDY-HO NEIGHBOOROONI!
I COULLDN'T HELP BUT OVERHEAR WHAT YOU


COMPOST IS MADE FROM ORGANIC MATERIALS SUCH AS: LEAVES, TREE LIMBS, LAWN CLIPPINGS AND OTHER YARD WASTES.

FIND THE FOLLOWING COMPOSTING VOCABLLARY WORDS IN THE WORD SEARCH BELOW.

FIND:
1.MICROORGANISM
2.COMPOST
3.WINDROW
4.CARBON DIOXIDE
5.HEAT
G.BOTTLE GARDEN 7.WATER
8.AIR
9.TREE BRANCHES
10.THERMOMETER

MICROORGANISMBZAWEL QDORTYUIOWASDFGWJKL MIMWERTYUIOPSDFCVBJ XWPQXRRTYNMBRHEATHD BOOXDFGHJKWUYNBRRTA EASDFWHKVARAWEABEVA MXTIGTWKMDIMWSVOEDF TYEHMNOILPWRDWCNBFG BOOGHYDSEFGRDEFDRHD EHTYDWLKMNEPQDCIADF XBOTTLEGARDENCWONZI TXZASTLEWFWDNEQXCAD TANSTAAFLMBWTHJIHDA DFGWINDROWFGHIJDELE BDAAXQWERTYDXZWESDB HTMTLPERLQWMDAFEZXM TTWEFEZWIMQUSQHBISW ZAIRMFIBZKLWHLIWMXS QRWTHERMOMETERSALM KWBVHYRTHGWXTBGIKLW

COMPOST IS MADE WITH THE HELP OF VERY TINY LIVING THINGS CALLED MICROORGANISMS. MATCH THE WORDS BELOW TO THE PICTURES IN THE COMPOSTING CHART TO COMPLETE THE PROCESS.


IT IS IMPORTANT TO REMEMBER THAT ONLY ORGANIC MATERIALS CAN BE COMPOSTED. IN THE CROSSWORD BELOW, CHOOSE THE COMPOSTABLE ITEM IN EACH SELECTION TO COMPLETE THE PLZZLLE.


AT MESA COUNTY'S ORGANIC MATERIALS COMPOSTING FACILITY THE ORGANIC MATERIAL IS PLACED INTO LONG ROWS CALLED "WINDROWS" TO COMPOST.
BLILD YOUR OWN WINDROW USING THE CORRECT ORGANIC MATERIALS.


INSIDE THE WINDROW IS A WHOLE WORLD OF MICROORGANISMS THAT LOVE TO EAT ORGANIC MATERIALS, AND LIKE US NEED PLENTY OF CLEAN AIR AND WATER TO SURVIVE. FEED THE MICROORGANISMS BY CIRCLING ALL OF THE ITEMS THAT THEY NEED!


AS THE MICROORGANISMS EAT EVERYTHING IN SIGHT, THEY CREATE HEAT! THE TEMPERATURE INSIDE THE WINDROW RISES TO BETWEEN 130 AND 150 DEGREES, SO THE BIG DINOS TURN AND WATER THE WINDROWS DAILY.


AFTER A FEW MONTHS, AND WITH LOTS OF WATERING AND CARE THE COMPOST IS FINISHED! THE DINOS AT THE COMPOSTING FACILITY SEL THE FINISHED COMPOST TO MESA COUNTY RESIDENTS FOR A SMALL FEE. $\qquad$



# S딭Nㄷㅌ FUN ШITH  

## BOTTLE GARDENING WITH COMPOST

WHAT IS THE PROJECT FOR?


TO SEE HOW MLICH PLANTS REALLY LIKE COMPOST IN THEIR SOIL.

## LETS GET READY FOR THE PROJECT!!!

USE THE BOTTOM OF THE NEXT PAGE TO WRITE DOWN WhAT YOU SEE OVER THE NEXT FEW WEEKS. WRITE DOWN STLFF LIKE, WHERE DID YOU GET YOUR SOIL AND COMPOST, WHAT TYPE OF SEED DID YOU PLANT, OR HOW MLICH WATER DID YOU ADD EACH WEEK. ALSO LOOK AT WHAT HAPPENS TO THE SOIL AND NOT JUST THE PLANTS.

YOU WILL NEED.......

1. TWO 2-LITER CLEAR PLASTIC POP BOTTLES.
2. 5-10 FRESH BEANS FROM A SEED PACK OR FROM THE GROCERY STORE.
3. SOIL FROM AROUND YOUR SCHOOL, HOME, GARDEN, OR A PATHWAY.
4. COMPOST. IF YOU DON'T HAVE COMPOST FOR THIS EXPERIMENT CONTACT MESA COUNTY SOLID WASTE MANAGEMENT AT (970) 255-0754 AND WE CAN SEND YOU A SMALL PACKAGE.
5. WATER.

ITS IMPORTANT TO REMEMBER TO ALWAYS TELL YOUR PARENTS OR TEACHER THAT YOU ARE DOING AN EXPERIMENT BEFORE YOU BEGIN. THAT WAY THEY CAN HELP YOU IF YOU DON'T UNDERSTAND SOMETHING.

## NOW LETS MAKE A BOTTLE GARDEN!

1. SOAK THE BEANS IN WATER FOR SEVERAL HOURS OR OVER NIGHT.
2. HAVE YOUR PARENTS OR AN ADLLT CUT THE PLASTIC BOTTLES IN HALF.
3. YOU CAN RECYCLE THE TOP PORTION.
4. FILL ONE BOTTLE HALFWAY LP WITH THE SOIL YOL DLIG-LIP.
5. LABEL THIS BOTTLE "JUST SOIL" AND DATE IT.
6. FILL THE OTHER BOTTLE WITH half and half of the same soil and mature COMPOST.
7. LABEL THIS BOTTLE "COMPOST ADDED" AND DATE IT.
8. PLANT A FEW BEANS IN EACH BOTTLE.
9. PLACE THE BOTTLES WHERE THEY WILL RECEIVE THE SAME SUNLIGHT.
10. KEEP THE BOTTLES WATERED. NOT TOO MLCH JUST ENOLGH TO KEEP THEM MOIST.

## YOU JLIST CREATED A BOTTLE GARDEN!!!!

LET THE SCIENCE BEGIN...


DR. AL LASALIROSTEIN COMPOST QLIESTIONS.

1. WHAT DID THE SOIL IN EACH BOTTLE LOOK LIKE BEFORE YOU PLANTED THE BEANS?
2. HOW LONG DID IT TAKE FOR THE PLANTS TO GROW?
3. WHICH BEANS GREW FASTER? WHY?
4. LIST REASONS WHY GROWING PLANTS FASTER AND STRONGER IS IMPORTANT FOR LOCAL FARMERS.

EXPERIMENT LOG:

