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PICK OUT SOME OF THE LITTER AND TRY TO MAKE SOMETHING *USEFUL* OR *CREATIVE* FOR YOURSELF, YOUR CLASSROOM OR YOUR COMMUNITY. IT CAN BE ANYTHING THAT WILL *ADD VALUE* TO YOUR LIFE OR *MAKE PEOPLE AWARE* OF THE PROBLEM OF LITTER.



TAKE A **PHOTOGRAPH** OF YOUR CREATION AND SEND IT TO **SCIENCE SPAZA** WITH A SHORT DESCRIPTION. FIND OUR DETAILS ON THE BACK OF THIS WORKSHEET.

### ONE PERSON'S WASTE IS ANOTHER'S OPPORTUNITY







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# WHAT'S HAPPENING HERE?

#### LITTER - PROBLEMS AND SOLUTIONS

YOU PROBABLY SAW THAT THERE IS A WIDE VARIETY OF LITTER IN OUR COMMUNITIES. IT IS NOT ONLY UGLY TO LOOK AT - IT IS HARMFUL FOR THE ENVIRONMENT, BECAUSE:

- IT CAN GET WASHED INTO STREAMS AND CAUSE WATER POLLUTION, MAKING IT UNSAFE TO DRINK.
- IT CAN BE EATEN BY ANIMALS, WHICH CAN MAKE THEM SICK AND EVEN KILL THEM.
- IT CAN BE WASHED INTO THE SEA, WHERE IT KILLS FISH AND OTHER MARINE ANIMALS.

**DUMPING** OUR LITTER IN LANDFILL SITES IS NOT A SOLUTION: IT TAKES UP MORE AND MORE OF OUR LAND AND POLLUTES THE SOIL AND WATER. **BURNING** OUR LITTER IS ALSO NOT A GOOD SOLUTION: IT GIVES OFF POISONOUS GASES WHICH POLLUTE THE ATMOSPHERE AND INCREASE GLOBAL WARMING.

WE NEED TO FIND BETTER WAYS TO MANAGE OUR LITTER. THE **3 RS** CAN HELP US! THIS IS A THREE-STEP PROCESS TO REDUCE THE AMOUNT OF LITTER IN OUR COMMUNITIES:



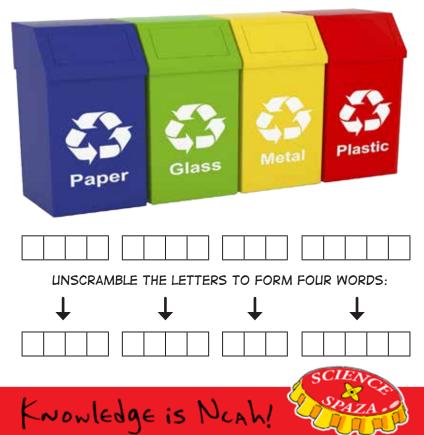
- *REDUCE* THE FIRST STEP IS TO CUT DOWN THE AMOUNT OF LITTER WE PRODUCE (E.G. USE CANVAS BAGS INSTEAD OF PLASTIC PACKETS FOR SHOPPING).
- REUSE THE SECOND STEP IS TO FIND WAYS TO USE THINGS AGAIN THAT WE WOULD NORMALLY THROW AWAY, RATHER THAN BUYING NEW THINGS (E.G. REUSE PLASTIC OR GLASS BOTTLES INSTEAD OF NEW ONES WHICH USE UP MORE RAW MATERIALS).
- **RECYCLE** THE FINAL STEP IS TO RECYCLE THE RUBBISH THAT CANNOT BE REUSED. COLLECT ALL YOUR RUBBISH, SORT IT INTO ITS DIFFERENT CATEGORIES (PAPER, GLASS, METAL, PLASTIC, OTHER), AND THEN PUT IT IN THE CORRECT RECYCLE BINS OR TAKE IT TO A BUY BACK CENTRE. IT IS THEN USED TO MAKE NEW PRODUCTS (E.G. ALUMINIUM FROM USED COLD-DRINK CANS CAN BE RECYCLED TO MAKE OTHER ALUMINIUM PRODUCTS).

#### FIND OUT MORE ABOUT RECYCLING AT: WWW.RECYCLING.CO.ZA, WWW.WWF.ORG.ZA OR WWW.TREEVOLUTION.CO.ZA



### PUZZLE YOUR MIND!!!

WHICH RECYCLE BIN SHOULD EACH PIECE OF LITTER GO INTO? WRITE EACH LETTER IN THE SPACE BELOW THE CORRECT BIN.



CAREERS:

THERE ARE GREAT JOB OPPORTUNITIES, SUCH AS:

- ENVIRONMENTAL SCIENTIST
- PLASTICS ENGINEER
- WASTE MANAGER
- ENVIRONMENTAL
  ENGINEER
- WASTE MANAGEMENT COOPERATIVE

## ART FROM LITTER

JOHNSON ZUZE USES LITTER TO PRODUCE ART:

WHERE I STAY PEOPLE LITTER EVERYWHERE. THE PLACE HAD BECOME AN EYESORE AND I THOUGHT I COULD HELP ADDRESS THE PROBLEM BY USING SOME OF THE LITTER TO MAKE ART PIECES, AND THAT IS HOW I BECAME AN ARTIST.



## MAKING A DIFFERENCE

LOOK WHAT CAN BE MADE FROM RECYCLING YOUR WASTE, AND HOW MUCH IT HELPS THE ENVIRONMENT!

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CURRICULUM

LINKS

MATERIALS (SORTING AND

RECYCLING MATERIALS)

• GRADE 8 LIFE & LIVING

INTERDEPENDENCE WITHIN

MATERIALS (PLASTICS AND

(INTERACTIONS AND

THE ENVIRONMENT)

• GRADE 12 MATTER &

POLYMERS)

• GRADE 7 MATTER &



SEND US A **PHOTOGRAPH** OF WHAT YOU MADE IN THE ACTIVITY AND TELL US ABOUT YOUR CREATION. WE'LL PRINT SOME OF YOUR RESPONSES IN THE NEXT SPAZA SPACE.

Send your feedback and the name of your club to our Whatsapp or SMS number **076 173 7130**; email us at **info@sciencespaza.org**; Facebook us at **1 ScienceSpaza** or contact us through our website **www.sciencespaza.org** 

Check out interesting info about the environment and drop your comments: Instagram: **@EnvironmentZA** YouTube: **EnvironmentZA**,Twitter: **@EnvironmentZA**, Facebook: **Department-of-Environmental-Affairs** 



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environmental affairs Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA This Science Spaza resource was produced in conjunction with the Working on Waste programme, an initiative of the Department of Environmental Affairs (DEA). Working on Waste supports the use of environmentally friendly waste disposal technologies in rural communities and creation of employment through recycling of waste.



Science Spaza is an initiative of Jive Media Africa. *What moves you?* Find out more at www.sciencespaza.org