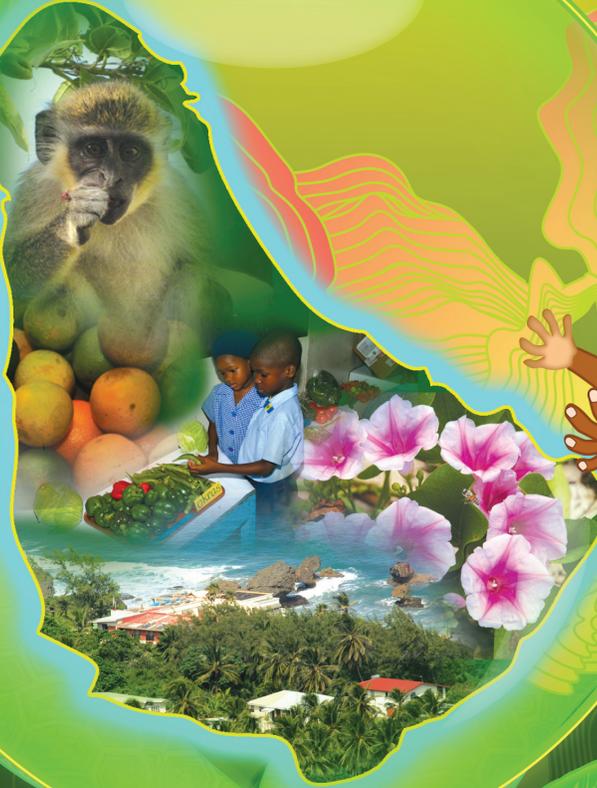


**BARBADOS  
CELEBRATES**

**43** *years of*

**INDEPENDENCE**

**1966-2009**



**THINK  
GREEN**

**THINK GREEN**

**Resource Booklet 2009**



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# BARBADOS

CELEBRATING  
43 YEARS OF  
INDEPENDENCE  
1966 ~ 2009

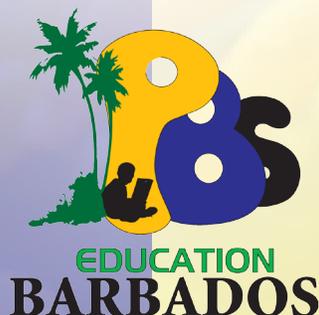
**PRIDE AND INDUSTRY  
IN OUR  
ENVIRONMENT**





# **Educational Radio 91.1 F.M**

## **Gordon Corbin Studios**



### **“ACEING CXC”**

**Mondays - Fridays**  
**5:30p.m - 7:30 p.m**

### **CXC**

<b>English A</b>	<b>English B</b>
<b>History</b>	<b>P.O.B</b>
<b>French</b>	<b>Spanish</b>
<b>... and more</b>	

### **Primary Schools'**

### **Broadcast**

**Tuesdays & Thursdays**  
**10:00 a.m -11:00 a.m**

**English**  
**Social Studies**  
**Science**



## Our Past, Our Present, Our Future - Our Environment



Our country is a small island with limited resources, as a result we as citizens of this independent nation must do all we can to protect and preserve our environment. As Barbados celebrates forty-three years of independence we must all show a level of maturity that will enrich our lives in ways that will make us healthier and stronger. This edition of the independence resource booklet pays particular attention to the environment.

The last issue of the independence resource booklet focused on 'Treasures of Barbados', treasures that we should take the best possible care of so as to preserve them for future generations. Barbados has been blessed with many natural phenomena that can be considered unique. These unique features include underground caves, swamps and the indigenous species of green monkey.

To encourage the conservation of our natural resources and our treasured heritage, we must all make every effort to do whatever we can in every possible way to ensure that we do not further endanger our lives and those of future generations. In so doing, we may all have to change the way we live by doing those things that would help to improve and sustain our environment.

Learning about the environment is very important, and as we share some facts of it with you, it is hoped that you would be inspired to learn as much as you can and play your part so that our future environment would be healthy and habitable.

As a human being living on planet earth, you have the right to clean air and water, a safe environment, and the unspoiled beauties this country and the world have to offer.

Unfortunately, because of pollution of the air, water and land many species of plants and animals are faced with extinction. We must therefore become informed of this trend and however, whenever and wherever possible put an end to these destructive practices.

We must take a firm stand against those persons that pollute or make decisions that encourage polluting or other harmful behavior. We must all be responsible users and protectors of our environment.

Students, now is the time for action. Many companies and individuals in Barbados are making every opportunity to make our country and environment better through greening efforts, you too can be a part of this worthwhile venture.



**H**ello I am *Boysie* with my sister *Maysie*; we are Barbadian green monkeys. Our ancestors came from Senegal and Gambia in West Africa over three hundred and fifty years ago. Do you know that you will not find our species anywhere else in the world? This makes us indigenous to our beautiful island Barbados. You can find us in our natural habitat in every parish of the island where we live in large troops. From time to time you may see some of us in your district or you can also see us at the Barbados Wild Life Reserve where we are allowed to roam freely.

We know that farmers complain about us and say that we cause problems for them by damaging their crops. As a result, some of us are caught and killed but occasionally we may be kept as pets. We know that some of us are really problematic but as Barbadian green monkeys we also do our part to help the environment and to assist in research.

Do you know that tissue from the kidneys of the green monkey is used in the production of polio vaccines and other diseases? I bet many of you didn't know that, so you see there are many good uses for us.

As we travel throughout this country we see so many destructive habits of humans which can eventually cause all of us to become extinct. When we take short cuts through the gullies to go to the Wildlife Reserve for lunch, it is sometimes very difficult to get there on time because of the large amount of rubbish that is dumped there and in other parts of our natural habitat. The natural springs where we bathe and drink water is being polluted everyday and the sight of old stoves, beds, furniture, computers, plastic bottles and other garbage make us very sad because we see first hand what is destroying our beautiful environment. We are usually happy when hikers and other interested groups clean the tons of garbage thrown around our island.

Fellow Barbadians we must take our health seriously and consider the consequences if we do not take better care of our environment. We must all make a start and make a difference to make Barbados a cleaner and healthier place to live in.

**THINK GREEN**



## By Our Actions

Every day in our country Barbados tons of waste is accumulated, with most of it carelessly disposed of. Each of us has a duty to ensure that we dispose of our waste appropriately and make adequate use of disposal bins as well as other safe and healthy ways of getting rid of waste.

Very often, persons are seen throwing bottles, cups, cartons, plastic bags, paper and fast food boxes out the windows of moving vehicles, especially public transport. This unsightly and bad practice not only litters the streets but contributes to blockages of drains, which results in flooding whenever there is heavy rainfall.

If you are allowed to eat and drink on public transport or private vehicle please **DO NOT** throw your litter through the window, but instead take it with you when you reach your destination and place it in a litter bin or suitable container for safe removal. We must all set the example so others will follow and by our actions help determine and safeguard the high quality of life we enjoy.



*Use water wisely, every drop matters*

### Keep Your School Environment Clean -

#### DO NOT LITTER

It is very important that you know to keep your school environment clean and healthy. There are many ways of keeping your school environment clean. Can you think of any? List as many as you can think of.

If you make it a rule to follow clean and safe practices, your school environment can be safe, healthy and clean for everyone.

We will look at three ways of keeping the school environment clean. These are sometimes referred to as the three R's they are: **Reduce**, **Reuse** and **Recycle**.

**Reduce** is the first way to a cleaner school environment. You can reduce the amount of waste you produce by using only what you need. You can reduce your water usage by using a glass, a cup or water bottle to collect water for drinking. Never leave the tap running while talking with your friends and always make sure that you turn the tap off completely when you are finished.

If you use a computer at school or even at home, **Remember** to put the computer on "hibernate" or "standby" when not in use for a short time. However, if you will not use the computer for an extended time save energy by turning it off.

**Reuse** is the second way to a cleaner environment. Many items can be reused instead of throwing them away, plastic containers are examples of items that can be reused over and over again.



## Activity



Identify two reusable items you use daily and list as many uses as you can in reusing them.

### Here are some suggestions to help you in your reusing efforts.

1. When you use paper in your classroom use both sides of the paper, in this way you reduce the amount of paper you use by eliminating waste. In addition, you may use recycled paper bags to cover your exercise and text books.
2. Do not throw away pencils because you have sharpened them to less than half. They can still be used for writing or you may share them with someone else who needs them.
3. Use reusable containers to store your lunch and snacks. This helps to reduce the amount of paper and plastic that is thrown away daily.
4. If you have toys, books or even clothes that you no longer use but are in good condition donate them to a charity or someone else who can use them.

**Recycle** is the third way to a cleaner environment and should be used whenever possible. Do you know that many of the things we use daily are made out of materials that were recycled? If you read the labels on some of the drink cartons you will see the logo that indicates they were made from recycled materials.

Do you know what this logo looks like? If you do share it with your classmates.

Other items made of material that can be recycled include paper, paper bags, glass bottles, plastic bottles and soda cans. When items are recycled, they go through a process which changes their original state and creates new items or products from the old ones.

Do you know that these used containers can be taken to various depots across Barbados for recycling? Some supermarkets have bottle depots where you can return glass and plastic bottles for a refund. This is one way of making pocket money while helping to keep the environment clean and healthy.

Some of the paper towels, garbage bags and toilet paper your parents purchase in the supermarket are made from recycled materials. They are helping the environment when they buy those products that contain recycled materials. Next time you accompany them to the supermarket help them to purchase other items that use recycled materials and make your contribution to greening the environment.

Recycling of unwanted items can provide much foreign exchange for Barbados. Also, many jobs can be created while making the environment safer and healthier for all of us.



## Protecting Our Environment TODAY for TOMORROW

### The Beaches In Our Environment



Our country BARBADOS boasts of calm crystal clear waters and pristine beaches which are considered to be among the most beautiful in the Caribbean and the world.

To maintain this tranquility it is necessary that we safeguard our future by disposing of our garbage appropriately when we go to the beach. Dumping of waste on the beaches or in the ocean leaves an unsightly mess which poses a danger to marine life. Pollution of the ocean and the waters around our beautiful island can cause devastating consequences to our food supply and our economy which depends on the tourists who visit to enjoy our sea, sand and the tranquility our island offers.

If you have had the opportunity to go on a glass bottom boat or even a trip on the Atlantis submarine you would have seen fish which come in all shades of the rainbow, as well as magnificent coral the sight of which can be breathtaking. Coral reefs are beneficial to us because they buffet the coastal regions from strong waves and storms. Coral reefs take hundreds of years to form and are made up of tiny animals called polyps which create limestone skeletons around them using calcium from the sea water.

Civic minded groups in our island, concerned about our environment and the decline and possible extinction of species of plants and marine

life occasionally set out to clean the ocean floor of debris. The coral reefs provide a haven for many plants and other sea creatures. When they have completed their tasks tons and tons of debris are removed from the ocean floor. It should be an embarrassment to all of us especially when this is highlighted in our daily papers. It shows just how careless we are in our disposal of garbage and the effects our actions have on marine life.

Dumping of garbage, sewage, fertilizers and chemicals in the ocean smothers coral and prevents them from obtaining enough sunlight and oxygen to survive. In addition to killing the coral, this toxic waste can also kill other marine flora and fauna.

Serious damage can also be caused to coral reefs by people walking on, touching and dropping anchors from boats on them.

The lives of sea turtles are also threatened by ocean debris as well. When turtles eat plastics and other garbage they risk blockage to their digestive tract which can cause them to suffocate and die. Plastic bags can also suffocate baby turtles.

**NEVER LITTER** our beaches; play your part to make them safe for all of us. Remember making a difference can begin with YOU.



**R**emember, that all unwanted waste should be disposed of correctly by placing them in the bins provided. Snack wrappers, paper, bottles and other waste should not be left in the classroom or thrown across the school compound. This can create an unhealthy environment where insects and rodents can thrive and cause illness. If you follow the rules of the three R's, you can keep your school and community clean for everyone and free of disease and illness.



*Vendor Stall surrounded by flood waters and garbage*

## Suggestion

Start a recycling club at your school to raise money for class projects by collecting plastic bottles and selling them to the facilities for recycling. If you think of doing this please check with your teacher for permission before doing so and make sure you have a well organized project.

### Activity



Research and list as many recycling facilities in Barbados as you can. For each facility you identify list the type of items it recycles and state what it does with these materials after they are collected.

## REMEMBER



**R**educe ... the amount of materials you use and throw away, take only what you need and avoid excess.

**R**euse...find alternative uses for items such as boxes, bottles, glass and bags instead of throwing them out after the first use.

**R**ecycle...change an item into something new by putting it through a process so that it can be used again.



### Activity



List at least five items which you can recycle and state how you would use them in their recycled state.



## The Importance of Trees In Our Environment



*Trees in Heroes Square Bridgetown*

Many fascinating myths and stories are told across our island by our parents and grandparents about trees in our communities and the significance of their presence at one time or another. Trees are important to our existence and our lives would be meaningless without them.

### Activity



What is the name of the oldest known tree in Barbados and where is it located?

The development of life as we know it today has been dependent on trees and the many by-products that come from them. Trees are the largest and longest living organisms on earth. We see them daily in almost every shape and size with many of them standing majestically in prime locations of our island, forming part of our magnificent landscape. Trees have always been with us and are more than the providers of shade or the sources of beauty. Trees absorb carbon dioxide from the atmosphere and provide us with many chemicals, seeds and fruit which are of great benefit to us. Wood from trees has been used to provide us with fire, water and transport, building materials, and agriculture among other important developments.

Trees take water and salts out of the earth and transport them to their leaves. Through the process of photosynthesis the leaves combine the water and salts with carbon dioxide from the air to produce the nutrients which feed the tree.

Trees are of great importance to the environment not only to humans but to other forms of life which depend on them for shelter and food. The roots of trees act as filters and absorb water, which helps to reduce the amount of top soil that runs off into drains, gutters and the sea, preventing soil erosion and flooding. Leaves from the trees fall on the ground and keep moisture in the soil which assists with growth.

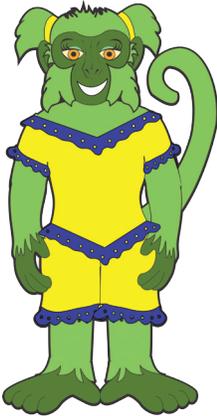
### Activity



What is photosynthesis?



## Barbados National Anthem



In plenty and in time of need  
 When this fair land was young  
 Our brave forefathers sowed the seed  
 From which our pride is sprung  
 A pride that makes no wanton boast  
 Of what it has withstood  
 That binds our hearts from coast to coast  
 The pride of nationhood



*Chorus:*

*We loyal sons and daughters all  
 Do hereby make it known  
 These fields and hills beyond recall  
 Are now our very own  
 We write our names on history's page  
 With expectations great,  
 Strict guardians of our heritage  
 Firm craftsmen of our fate*

The Lord has been the people's guide  
 For past three hundred years  
 With him still on the people's side  
 We have no doubts or fears  
 Upward and onward we shall go  
 Inspired, exulting, free  
 And greater will our nation grow  
 In strength and unity



*Lyrics by:  
 Irving Burgie*



*Music by:  
 C. Van Roland Edwards*



*Barbados National Flag*



*Barbados National Coat of Arms*

## THE NATIONAL PLEDGE

*I pledge allegiance to my country Barbados  
and to my flag,  
To uphold and defend their honour,  
And by my living to do credit  
to my nation wherever I go.*



*National Flag designed by:  
Grantley Prescod*



*National Pledge  
written by:  
Lester Vaughan*



*Coat of Arms designed by:  
Neville Connell*

## Some Facts About Trees

- Trees provide food for us to eat, many species of trees provide fruit, nuts, spices and other foods.
- Trees are the source of essential oils, medicines, soaps and cosmetics.
- The pulp from which paper is made comes from trees.
- Rubber comes from trees.
- Trees are used to make musical instruments and tools.
- Trees are used for cooking and firewood.
- Trees are used to make homes, shelters, furniture and clothing.
- Trees absorb Chemicals such as carbon monoxide and dioxide and gives off oxygen.
- Trees are referred to as the lungs of the environment.

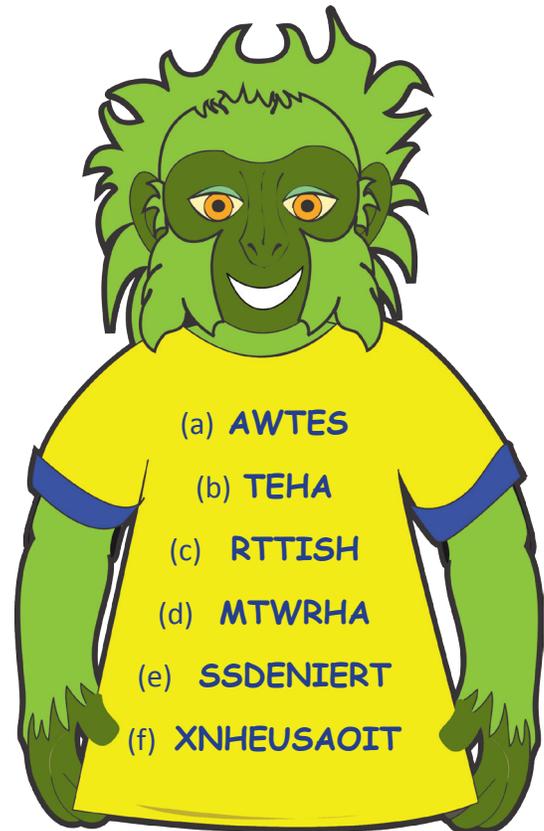
Find out more about the world of trees on this site: <http://tree-species.blogspot.com/2009/importance-of-trees.htm>

- (d) three trees that provide us with spices.
- (e) two trees that provide us with furniture.

### Activity



- 1) Rearrange the letters on my shirt to spell out words associated with the effects of hot weather.



- 2) Change SUN into SEA in only two moves.  
SUN ..... SEA

### Activity



Research and name:

- (a) the oldest known species of tree.
- (b) six trees which provide us with nourishment.
- (c) one tree that provide us with medicine.



## We Write Our Names On History's Page



### *Tribute To Ryan Macdonald Brathwaite*

#### **Gold Medal World Champion Hurdler**

On August 20, 2009, Barbadian Ryan Brathwaite wrote his name on the history pages of Barbados and the 12<sup>th</sup> IAAF World Championships in Berlin Germany when he won the 110 metres hurdles in 13.14 seconds and won Barbados' first ever gold medal at an international athletic meet. This remarkable act of achievement made him the youngest athlete to win this event.

This victory was an accomplishment that has made all of us very proud of Ryan. As he stood on the podium and we heard the Barbados National Anthem played for the first time at such a major international event, our hearts swelled with pride.

This determined and talented athlete of the soil is a former student of the Lawrence T. Gay Memorial Primary school and the Lester Vaughn Secondary School. It is no doubt therefore that he has followed in the footsteps of these two distinguished Barbadians and cemented his name on the history books of our land.

To show his mettle, prowess and capabilities, Ryan competed on September 13 in Zagreb, Croatia at a Grand Prix event where he also won the 110 metres hurdles in the time of 13.35 seconds. This was another victory, another proud moment, another page of history written in the life of Ryan Brathwaite.

Ryan's motivation and commitment to athletics and in particular hurdles began many years ago as a student of the Lester Vaughn Secondary School. Over the years he participated in many athletic meets including the World Youth Championship Games. and the

CARIFTA Games. He is the National Record Holder of the 110 meter hurdles.

In 2006, he was named Male Athlete-of-the-Year as well as the Most Outstanding Junior Male Hurdler. Ryan also competed at the Olympic Games in Beijing, China in 2008.

A student at the Barton Community College in Kansas, USA, Ryan was awarded the distinction and honorary status of Barbados Ambassador by Prime Minister of Barbados The Honourable David Thompson at an official ceremony on September 17, 2009 at Kensington Oval.

Ryan's achievement of winning the 110 metres hurdles was a world class accomplishment from a world class 'son of the soil'. In his continued pursuit for athletic excellence, the Media Resource Department join all Barbadians in wishing Ryan the very best in his journey of athletic success.



*Ryan on his way to victory*



## Pride and Industry



*Golden Apple Tree*

### Arbor Day

Arbor Day is celebrated around the world as a means of encouraging tree planting, nurturing and caring for trees. The international observance of this day started in Nebraska, USA with Julius Sterling Morton, a journalist and politician. So strong was his passion for increasing the awareness of the importance of trees that he made the proposal for a special day to be set aside for tree planting. This idea met with much success and in 1872 on the first Arbor Day more than one million trees were planted. This idea spread rapidly throughout the United States and other countries around the world including Barbados.

### Arbor Day in Barbados

One hundred and two years ago, Barbados celebrated its first Arbor Day in 1907. **The Preservation of Trees Act** was passed by Government on July 08, 1907 with the intention of preserving trees, encouraging cultivation and protecting the land on which trees grew. In 1951, **The Cultivation of Trees Act of 1950** came into force after the original Preservation of Trees Act was repealed in 1950.

**The Trees Preservation Act of 1981**, is supervised by the Chief Town Planner and makes provi-

sion for the protection and maintenance of trees in Barbados.

Over the years, the National Conservation Commission (NCC) has encouraged Community groups and school children to play an active role in projects designed to sensitize them on the importance of trees as a way of preserving our environment.

Perhaps your school was involved in the Capacity Building project for Youth in Sustainable Land Management which began in 2007 with the theme 'A Tree for Every Child'. This is a very worthwhile project which helps to nurture the importance and appreciation of trees in our environment.

### Activity



- (a) Find out all you can about this project and see how your school can take part in this or a similar project.
- (b) On what date is Arbor Day celebrated in Barbados?
- (c) What was the theme for Arbor Day 2009?
- (d) What four main things do trees need to live?

### Activity



Name the tree that Barbados was named after. Research and write all you can about it and state where it can be found.

## Activity



## What Tree is that?

Identify the trees and write your answer below each one.

a)



b)



c)



d)





## Environmental Fact Sheet

**Biodegradable** - The ability of a substance to break down in the environment into harmless compounds.

**Composting** - Decomposing organic waste, such as food scraps and yard trimmings, with microorganisms (mainly bacteria and fungi) to produce compost. Compost is organic material that can be used as a soil amendment or as a medium to grow plants.

**Greenhouse effect** - The rise in temperature that the earth experiences because certain gases in the atmosphere such as carbon dioxide, nitrous oxide, methane and water vapor trap energy from the sun. Without these gases, heat would escape back into space and earth's average temperature would be about 60°F. These gases are referred to as green house gases because they make the earth warmer by trapping energy in the atmosphere. We need the greenhouse effect to make the earth warm enough for us as humans to live.

**Global warming** - Described as an increase in the average global temperature on earth. As the earth gets hotter, hurricanes, droughts and floods become more frequent.

**Landfills** - Engineered areas where waste is placed into the land.

**Recycling** - Sorting, collecting, and processing materials to manufacture and sell them as new products.

**Ozone layer** - A region located in the stratosphere several miles above the surface of the earth. Ozone, a gas which occurs naturally in the atmosphere is concentrated in the ozone layer and helps to shield us from harmful ultraviolet light from the sun.

**Solar energy** - Energy that comes from the sun and can be used to heat water, homes, buildings and make electricity.

**Pollution** - Pollution means any contamination of air, soil, water and environment. Loud noise and sound is also considered pollution.

**Pathogens** – These are infectious organisms that cause disease and include bacteria and viruses.

**Climate change** – This refers to changes in the long-term weather patterns which can become warmer or colder and the annual rainfall or snowfall which can increase or decrease.



The energy star is found on items such as computers, TVs, VCRs. This label is placed on these items and indicate that they save energy.

### Make It Green

You have probably heard the popular phrase 'going green' and wondered what it really means. It refers to the use of methods to help save the world through environmentally friendly habits. Remember we identified the three R's of waste management, Reducing, Reusing and Recycling? Well, these are all ways of helping to improve the health of our nation and the earth. These practices should become part of our everyday life because every action does make a difference but we should endeavour to follow those which make it safer and better for all of us.

### Tips on going green

**Do not waste water.**

**Turn off lights when they are not necessary.**

**Unplug appliances such as microwaves and televisions when not in use save energy.**

**NEVER LITTER**



## Pollution And Its Effects On Our Environment

**Pollution** is when water, air or land becomes very dirty and unfit for use. Water pollution affects our water supply and marine life; air pollution affects the air and land pollution affects the land. They can all destroy life and the environment. There is also noise pollution that can affect our hearing. Daily we all contribute to pollution in one way or another and this can cause damage to our health and the environment.

Let us take a look at these forms of Pollution:

**Air pollution** - Harmful gases and tiny particles (like carbon monoxide, nitrogen dioxide and sulphur dioxide) when released into the air pollute the air. The smoke released from burning fuel, indiscriminate burning of garbage and plastics, exhaust from motor cars and other vehicles are the major sources of air pollution. This air borne pollution is very toxic and causes health problems for us.

Do you know that sometimes the itchy throat, burning eyes, cough, allergies and asthma attacks that you develop are a result of air pollution?

In many of our neighbourhoods garbage of all kinds is burnt indiscriminately and cause problems for persons with allergies and other illnesses. This senseless habit must stop and consideration be given to those who suffer as a result.

**Water Pollution** - Water is the most precious natural resource available to man, it is essential for everything to grow. Without water we would not exist neither would any other form of life.

Water pollution occurs when water becomes unfit for domestic use either through contamination by chemicals or pollutants containing harmful bacteria and other toxins.

There are many factors that cause pollution of our water supply including sewage, oil spills, pathogens and fertilizers.

Pollution of our water supply is dangerous and can affect our health. We must therefore do everything we can to avoid contamination of our water by disposing of any toxic matter appropriately.

**Land pollution** - Land pollution is pollution of the earth's natural land surface by industrial, commercial, domestic and agricultural activities. Human sewage, oil dumping, littering, overcrowded landfills and debris are among the sources of land pollution.

One way in which you can help in the prevention of land pollution is by recycling. This is a good start but you can also use and practice the many tips given in the recycling section of this booklet.

**Noise pollution** - This is described as annoying and potentially harmful environmental noise and include any sound that disrupts the activity or balance of human or animal life. Noises such as those which come from motor vehicles, aircraft, other forms of transportation, loud music, construction, industry and machines. These noises can cause sleep disruption, hearing loss, high blood pressure, heart disease as a result of stress and in very severe cases mental instability.

You and I have the responsibility to take care of our world. You can start right from your school and make a difference - Help make the world a cleaner and a healthier place to live in. I will start in my immediate environment so that together we do make the difference.

## Think Green



### Dumping is Illegal!

Across our country we see piles and piles of household garbage, bags of yard waste, discarded appliances, old cars, used tires, dead animals and demolition debris every day. This unsightly practice can pose a serious threat to our health and the environment. These open dump sites can be found throughout Barbados in every parish, in empty lots and pastures, cane fields and along roadsides, and abandoned buildings. These are all illegal disposal sites which are unsightly and put our lives at risk to disease and illness. This garbage releases poisons into the air, the soil and groundwater, breeds vermin and poses serious threats to our health and environment.

Open dumps create a public nuisance and pose health, safety and environmental threats to all of us.

Additional dangers include:

- Fire and explosion
- Injury to children playing in or around the dump site
- Diseases carried by mosquitoes, flies and rodents

- Contamination of natural water streams
- Contamination of soil and groundwater
- Damage to plant and wildlife habitats
- Decrease in the quality of life to nearby communities and residents

Have you noticed that when this garbage remains it often grows larger and attract more dumping by others? What is also noticeable is that it is sometimes placed next to signs which forbid dumping and carries a fine if the person is caught committing the act.

We need to be more conscious of our environment and the damage we cause, as a result of these bad practices. To change this and improve the quality of our environment, we must change our daily habits which are destructive and develop healthy habits to lessen waste and keep our environment healthy.

Remember **NEVER** place garbage in areas that are not allocated for garbage disposal or collection.

### Activity



- (a) What are the components of water?
- (b) Research and list as many sources of water pollution as you can.
- (c) What is a decibel?
- (d) List three (3) ways to avoid air pollution.



## Do You Know ...

- Plastic and foam containers are non-biodegradable and can take hundreds of years before they break down or decompose.
- One drip every second from a faucet/pipe wastes 540 gallons of water a year.
- Recycling one glass bottle or jar saves enough electricity to light a 100-watt bulb for four hours.
- Recycling one aluminum can saves enough electricity to run a TV for 3 hours
- The Crane beach was rated one of the best beaches in the world.
- Harvesting of corals for commercial sale is against the Coastal Zone Management Act of Barbados
- You can tell how old a tree is by counting its rings because it grows a new ring every year.
- Trees and plants absorb carbon dioxide removing it from the air.
- Every ton of recycled paper saves seventeen trees
- The henna used in tattooing comes from trees
- The garbage we send to the landfill produces a greenhouse gas called methane.
- The sun produces solar energy.

## Activity



- a) Research and find out the difference between climate and weather. Write your answer in your own words.
- b) Research and find all you can about the organisations listed below, in your answer say how they assist in the efforts to keep Barbados' environment a healthy one.
  - 1) Sanitation Service Authority
  - 2) Environmental Protection Department
  - 3) Solid Waste Protection Unit
  - 4) Barbados Marine Trust
  - 5) National Conservation Commission
  - 6) The Ministry of the Environment
- c) Collect newspapers and magazine articles and make posters about different issues of the environment. In a creative and imaginative way suggest ways that will improve the environment using the articles and pictures collected



This resource booklet is available on line with interactive links for students, teachers and the general public. You can access the booklet on our website [http:// www. pbse.org](http://www.pbse.org)



### Activity



#### Link Up

Link each of the words on the right with a word on the left to make eight longer words.

LAND	HOOD	.....
NEWS	JURY	.....
THOU	MARK	.....
GIG	PAPER	.....
BROTHER	SAND	.....
COCK	OUR	.....
ARM	ANTIC	.....
IN	TAIL	.....

### Activity



#### Just the Opposite

Unscramble the words to form a pair of opposites on each line.

SATF	.....	LWSO
DBA	.....	GDOO
NI	.....	UOT
RBEAK	.....	XIF
WLO	.....	GIHH
SATRT	.....	PTSO
IRNEWN	.....	SOLER
LAL	.....	NNEO

- Activity 17.** BANANAS      **Activity 18.** YESTERDAY
- Activity 16.**  
 (a) 43 – THE OTHER NUMBERS ARE DIVISIBLE BY 3  
 (b) blue (c) the letter 'm' (d) GOING... GREEN... EARTH ...  
 FRIENDLY ... ENVIRONMENT... PROTECTION
- Activity 15.**  
 TAKE WHAT YOU NEED AND USE WHAT YOU TAKE
- Activity 14.**  
 FAST... SLOW; BAD... GOOD; IN... OUT; BREAK... FIX; LOW... HIGH
- Activity 13.**  
 LANDMARK, NEWSPAPER, THOUSAND, GIGANTIC, BROTHER-  
 HOOD, COCKTAIL, ARMOUR, INJURY
- Activity 11.**  
 (a) Hydrogen and oxygen ( 2 parts hydrogen, 1 part oxygen) (c) The  
 measurement of the intensity of sound or loudness.
- Activity 10.**  
 (a) Sea grape ( b) golden apple (c) breadfruit (d) orange
- Activity 9.**  
 The Bearded Fig Tree (Ficus Citrifolia)
- Activity 8.**  
 September 22 (c) 'Trees: The Circle of Life' (d) Water, soil, sunlight  
 and air
- Activity 7.2**  
 SUN... SUE... SEE... SEA
- Activity 7.1**  
 (a) sweat (b) heat (c) thirst (d) warmth (e) tiredness (f) exhaustion
- Activity 6.**  
 (a) The ginkgo tree (b) apple; breadfruit; paw paw; mango; orange (c)  
 camphor (d) nutmeg; cloves; cinnamon (e) mahogany; pine
- Activity 5.**  
 Photosynthesis is the process by which plants change sunlight into  
 energy.
- Activity 4.**  
 The baobab tree in Queen's Park

#### Answers

#### WEB LINKS

- <http://www.ypte.org.uk>
- <http://www.savetheworld.com>
- <http://www.yoto98.noaa.gov>
- <http://.epa.gov/climatechange>
- <http://www.seq1.org>



Hi, I am Barbados and I am here with my friends Boysie and Maysie. We want to encourage you to do your part. Keep me clean so that together we can enjoy a healthy and clean environment.



Designed and Printed by  
**The Media Resource Department**  
Ministry of Education and Human Resource Development  
The Elsie Payne Complex, Constitution Road, St. Michael