

200 words

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Topic..Environment and Plastic Pollution.....

Date ..23/4/18..

Anirup Biswas

5/10 SA

Class 12

DPS International, P-37, Sector - VI, M.B. Road, Pushp Vihar, Saket,
New Delhi - 110017

Contact Number - 29581187, 29564889

6/10

Plastics are non-biodegradable materials, meaning that they cannot be decomposed by organisms that exist in the environment. This establishes plastics as major pollutants, since they are in use across the globe, in every aspect of daily life. The disposal of plastics is a problem that has puzzled scientists for more than a decade, while the usage of plastics becomes increasingly widespread. Plastics are all around us, since they are versatile and cheap to manufacture. From bottles of packaged drinking water to plastic bags that vegetable vendors use, plastics have applications from the smallest vegetable cart to the billion dollar industry of packaged drinks. Even though plastics have a multitude of applications and are very cheap, the damage they cause to the environment far outweighs their benefits.

The disposal of plastics has been undertaken in a way that further and spreads the effect of plastics as pollutants. Instead of trying to find ways to break down these non-biodegradable materials, countries started to dispose off of their plastic waste by dumping it in the surrounding oceans and seas. This made plastics an environmental threat, instead of just a pollutant. Sealife was harmed as fishes began to feed on the plastic waste. Millions of dead fishes were found washed ashore on the beaches of the countries that contributed to the waste.

Recently, a breakthrough development has occurred in the field of science that is associated to the disposal of plastics. Scientists have made an enzyme that helps decompose non-biodegradable materials, like plastics. This discovery, applied in an effective manner on a global scale, would vastly reduce the damage these plastics can do in the future.

Teacher Signature

Ritika

561 words

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Topic. ENVIRONMENT AND PLASTIC POLLUTION.....

Date 23-04-18.

Name - Chinmayee Chatterjee

School - Laxman Public School

Address - Hauz Khas Enclave, New Delhi - 110016

Class - 12th

Section - A

Phone Number - 26963240, 9811705061

A

2/10

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ENVIRONMENT AND PLASTIC POLLUTION

In the 21st ~~century~~ century, people all over the world face difficulties and problems in various areas, irrespective of whether they are working ^{for} the government in the most important sector such as Finance, Home Affairs etc. or they are working in a 12-hour BPO sector. In everyday life tensions in field of politics, private sector and public sector are commonly noticed alongwith the many people complaining about the deteriorating air quality in areas like New Delhi, etc. While tensions in politics, private sectors etc. will affect people only for a short duration of time, problems related to environment and climate is something that we need to consider seriously, as it has the capability to affect us in the long run.

All of us know how the environment deteriorates, due to presence of water pollution, air and soil pollution, they are the prominent ones that cause it and affect our lives drastically, but ~~there~~ are many of us who may ^{not} know the ^{thing} ~~cause~~ behind their cause, and that thing is 'PLASTIC'. Plastic is something that we use, see around us in everyday life, almost everything is made out of plastic thanks to its cheap availability, durability and versatility, that contributes to its mass production, even though plastic has its own advantages, but as we know everything has its own pros and cons; plastic tends to pollute the environment, thanks to its non-bio degradable nature, that it makes it virtually indestructible, which causes it to not to degrade with the soil, thus polluting the nearby surroundings with its very presence.

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- ✓ Pollution is usually caused by the plastic waste thrown from homes, schools, offices, industries etc. ^{An} ~~An~~ average Indian household is said to produce nearly 1 tonne of plastic every month or 12 tonnes in a year. With so much plastic around us, we are sure enough to be affected by it. Plastic can only be destroyed by pyrolysis or burning, but even this practice severely affects our lungs, heart etc due to rise of harmful toxins. According to scientists in University of California, Santa Barbara, since the 1950's about 8.3 billion tons of plastic has been produced which equals to the weight of nearly 1.5 billion elephants.
- ✓ Plastic is known for its severe after-effects, plastic tends to disrupt the food chain observed by organisms as due to its presence in seas, grasslands, forests etc many animals like fishes, tigers etc are on the verge of extinction, according to United Nations, by the year 2050, oceans would have more plastic than fishes in them if the present production rate of plastic continues. It not only affects the organisms but also a country's development, plastic tends to reduce the rate of recreation ^{and} tourism in several places, due to simple fact that people don't like to visit areas which are dirty or full of plastic waste.

With so many dire consequences, it is important for us to combat plastic waste. Adopting simple methods like carrying a cloth or jute bag instead of plastic bag while shopping, using reusable utensils made of paper glass or porcelain or using paper plates, cups etc that are easy to dispose and following the 3R's - Reducing, Reusing and Recycling plastic can help curb plastic pollution. We should take inspiration from people who are working to reduce plastic waste and bringing up innovative ways to reduce its effects like Professor R. Vasudevan, who developed a method of mixing plastic waste with bitumen in order to make ^a ~~an~~ compound required for construction of road that is more durable, people like Medha Patkar and her friend Shriya Patil developed a way of converting plastic into ^{in form of} fuel along with Indian Institute of Petroleum that have created automotive grade fuel using plastic which according to them is capable of running 2 kms more than normal petrol and diesel, people like Aditya Singh and NGO's like Samarpan Foundation have developed a way of constructing houses using plastic bottles. If we get inspired by even 1% of what we do then we can surely curb plastic pollution and make this world a better place to live in.

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Ritika (2)

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from individual level. If we take initiative from individual level any major issue can be sorted out easily.

For this we must take some solutions such as to become a rational consumer by knowing what is right and wrong we should carry bags (paper/jute) to shopping, consume less bottled water. Govt should implement laws and take strict actions against the people who don't obey these laws.

Then only our earth can be saved. When a small plankton eats plastic the particle gets into body of the next organism which will consume it. Like this the whole food chain gets disturbed.

The best way is to unroot the basic cause 'plastic'.

Think wisely, work practically and live happily should be our motto

Teacher Signature

Ritika

Topic Environment and Senior Plastic Pollution

Date 23/4/18

Name → Mansi
 School name → Govt. Girls Senior Sec. School
 School address → Pushp Vihar, M.B Road, Sector - 7
 Class → Xth - B
 Contact no. → 9871037025

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Environment and Plastic Pollution

We are already passing through the age of plastic. Almost everything around us is made from plastic. A synthetic material which can be easily moulded or softened on heating is called plastic. Plastics actually like a synthetic (man-made) polymers like synthetic fibres. Polythene is mostly used substance by human, it is used for carry bags.

- Most common types of plastics are:-
- i) Bakelite
 - ii) Nylon
 - iii) Terylene
 - iv) Polythene
 - v) Polyvinyl chloride (PVC)

Plastics can be moulded in any desired shapes. On reheating it can be mould or bent in any shape as possible and drawn into wires. It is used in making toys, buckets, cabinets, utensils, kitchen appliances and many other countless items.

Plastics as a material of choice :-

- Plastics are most common things in daily life. People used it as its attractive features given below:-
- i) light weight
 - ii) easy availability

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- (iii) durability
- (iv) good strength
- (v) Poor conductor
- (vi) non-reactive

The use of plastic is very common thing in any person's life. It is everywhere, home, outside and also in our body.

Types of Plastics :-

Plastics are of two types i.e.

- * Thermoplastics
- * Thermosetting plastics

⇒ A plastic which is melted or softened and bent on re-heating is called thermoplastics.

It is used in making toys, buckets, etc. It can be replaced in any form.

✓ ⇒ A plastic which is not moulded again and again if it is moulded on heating is called thermosetting plastic.

It is used in making kitchen appliances, electric appliances wires, utensils etc. It can't be replaced.

Plastic and the environment.

Substances which can decomposed is called biodegradable. But substances which can't be decomposed is called non-biodegradable. Plastic can't be decomposed so, it is non-biodegradable substances.

Name → Mansi
Class → Xth - B

School → Govt. Girls Senior
name → Secondary School.



Topic.....

Date 22/11/20.....

Since we understand that plastic is a non-biodegradable substance so there is a problem associated with plastic.

Problems associated with Plastics:-

Plastic creates many problems when we use it in excessive way. It can't be decomposed. Excessive use of plastic create the process of photo degradation in which it breaks down into smaller and smaller toxic particles. It undergoes in the soil and reduce its fertility and makes it a barren land. People used polythene to carry bags and throw it on outside and not in dustbin. Animals can be eaten these plastics accidentally can choke to death. It is thrown in water and creates water pollution. It is becoming like a dangerous things for marine animals. Hundreds and thousands of marine animals like fishes, dolphins, whales etc. are choke to death. Some people understand that increment of plastic can dangerous to our lives. So, they burned the plastic to reduce it. They don't know that it create air pollution.

Preventive Measures:-

There is a need of sustainable way to reduce the use of plastic and control the plastic pollution. Follow the steps of Four Rs to reduce the plastic pollution i.e. Reduce, Reuse, Recycle and Replace.

- ✓ (i) Reduce → We should reduce the use of plastics in our daily life.
For ex → reduce the polythene bags and used jute bags.

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✓ (ii) Reuse → We should use the used polythene bags not use new polythene bags.

✓ (iii) Recycle → We should recycled our used materials. like ~~therom~~ thermoplastics can be recycled.
For ex → Toys, buckets, bottles etc.

✓ (iv) Replace → Adopt eco-friendly
For ex → Replace your plastic tiffin box by stainless steel.

Teacher Signature

Ritika

Total sheets: ② Pg no: 1

Encouragement - 3 793 words. ~~81~~

Topic.....

Date 23/04/18

Name: DEVIKA RAJESH

School: KERALA EDUCATION SOCIETY SR. SEC. SCHOOL, R.K PURAM
SEC - 8, NEW DELHI

Cons 1

Contact: ~~990~~ 9810645496, 9990660605

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MEDIUM - ENGLISH

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TOPIC - ENVIRONMENT AND PLASTIC POLLUTION

Oh! Mother Earth, she gasps for breath
Tonnes of plastic chokes her lungs,
She curses Alexander Parkes, for his invention
that rules the modern world.....

✓
'Plastic' is one of the most appraised and finest inventions. ever made by mankind. The world just changed and the change is revolutionary. Alexander Parkes, who invented the first synthetic plastic truly deserves huge appreciation. Plastic is a non-biodegradable substance, a creation by mankind, which plays a pivotal role in our day to day life. We have now many versions of this as known as PET, PVC and the list is endless. Over decades, many innovations and experiments have been conducted in this segment. From everything we use in our daily life, like from just the 'tiny hairclips' to 'giant electronic goods', everything is made of plastic. There are myriad uses of plastic. Truly, it is a boon for the modern world. But, that's only the brighter side, the problem linked with plastics are known but are hardly taken care of.

✓
Plastic, as we know is a non-biodegradable compound, that has huge potential to destroy ^{mother} earth. The problem lies with its disposal. It can be said that one of the most challenging problem the global economy, faces is the disposal of plastics. The careless attitude of humans and their unlimited wants have made this a topic of ~~so~~ great concern. It is just thrown away anywhere

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Ritika

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✓ which ultimately ~~chokes~~ blocks the drain, the soil loses its fertility and also at times ends up inside the tummies of cattle. Sea-goes just throw away polythene bags and the other attractive plastic covers in myriad colours that sink to the ~~sea~~ ~~bottom~~ in the blue water, which may appear like a jellyfish to a hunger-stricken ~~outside~~ turtle or whale. When burnt, this compound releases huge amount of toxic gases into the atmosphere, welcoming a bundle of ~~disases~~ diseases like cancer, skin allergies, further aggravating the problem. The careless attitude of humans once led to the clogging of drains in Mumbai in the 1930's, which led to one of the worst floods the country had. In the USA, PVC has been banned in food containers as it ~~had been~~ has been found that its usage can trigger a spectrum of diseases. But still many countries, including India continue with its usage. The real problem lies with the disposal of this compound, that also has the power to terminate life ~~for~~ on earth.

The human ~~conscious~~ conscience gets pricked only on several occasions like 'Earth day' or 'Environment day', but the problem is actually around all of us all the time. The onus of humans to curb this problem just gets over and is confined only to a day or two. Stress should be laid on local action that translates to global impact. Tonnes of plastic waste is generated daily all over the world, but hardly even half gets recycled or is reused. The single use of plastic covers have further aggravated this issue. The demand for the product has never taken a back step even when environmental issues are taking the centre stage due to its cheap pricing, ~~and~~ the durability and convenience that it offers to its users.

✓ A recent headline in newspapers about 'PETase' a plastic eating enzyme discovered by scientists gives little hope and promises ~~future~~ solutions for the future.

Teacher Signature

Ritika

Topic.....

Date ..23/04/18

NAME: DEVIKA RAJESH

SCHOOL: KERALA EDN. SOC. SR. SEC. SCHOOL, R. K PORAM,
SEC- 8.

CONTACT: 9810645496 , 9990660605 .

Little efforts by humans can make great changes. The current scenario wouldn't have aggravated if ~~the~~ mankind ~~was~~ is aware and understood of its own and fulfilled it takes each step in protecting and preserving the nature. ~~Stress~~ It is important as well as to adapt the mantra of 3Rs - 'Recycle', 'Reuse' and 'Rethink'. Gandhiji coined the ~~word~~ words, "The Earth has enough to satisfy every man's need but not a man's greed". Emphasis on environmental issues should not be laid only on special days, but must become a part and parcel of our life. One can create little change, two can create little magic but together we can create a very great difference.

Teacher Signature

Ritika

Topic... Environment... And... Plastic... Pollution.....

Date (23rd 04. 2018)

Encouragement 4

Name : Yash Sharma

Class : IXth - B

Contact No. : 8375822989

6.5/10
Cons 4

Cons 3

School Address : St. John's School, Mehrauli Village ward no-1, near Mehrauli Police Station.

6.5/10

} Environment And Plastic Pollution }

* As we all know in today's world plastic is getting a boon that has a lot of importance in our daily ^{lives} life. We use plastic materials in our daily use such as we use buckets, jugs, bakelite handles, etc., in our daily lives. It is getting importance because it is very cheap, light and very suitable to use than any other material. Plastic is very useful in decorative things also such as new artificial flower, wall hangings, etc. are made up of plastics for the purpose of decoration.

* But, do you know, how much harmful plastic is? We all know that plastic is very helpful in many ways as I have said earlier but it is much harmful also. Harmful because as you see in many places that when we burn plastic materials then a black smoke appears. That black smoke is known as Carbon Monoxide (CO) that is a very poisonous gas and when we inhale this gas, it reaches to our respiratory system and thus, reaches to our blood and forms Carboxyhaemoglobin in our blood that stops our blood circulation in our body and sometimes, it also causes deaths. And when it gets mixed with air then it causes acid rain that is harmful for our skin and causes the corrosion of metal and also corrode the monuments and other buildings. It also harms the fertility of soil and thus, decreases the production rate of eatables necessary for nutrition.

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* If we throw it in the river, lakes and streams as many industries do. They used to throw the garbage and other harmful chemicals in the river, stream, etc., and it causes the death of marine animals and also pollutes the water. As we know, in India there is a shortage of water but if we will pollute the water then we will not be able to survive any more due to the pollution. So what can we do? Can we dump it into the soil?

* No, we cannot dump it into the soil because if we dump plastic in the soil then the chemicals by which it is made up of. They will kill the helpful microorganisms ^{present} in the soil and will lead to the decrease in soil's fertility. And will affect the rainfall pattern because if plant will not grow then how will the process of photosynthesis be done? How will they make O_2 ? So we cannot dump it.

* So, for saving the environment we should not try to do our own ways for destroying plastics. We should adopt the 3 vital steps that helps us to save our earth and these steps are:

- 1) Reuse: Reuse or use the thing as much as you can.
- 2) Reduce: If you don't need something then pass it to someone else.
- 3) Recycle: Try to give the plastic waste to the garbage collector.

* And try to use these methods, so that life can be more on our earth and try to grow as much as trees you can grow and follow the slogan "Say no to Plastic".

- We must ~~put~~ ^{use} bags made up of cloth and hand bags made up of jute.
- We must wear the shoes made up of cloth.
- We must use lunch boxes made up of steel and not use the plastic ones.
- We must use chairs made up of wood and bottles made up of steel.
- We must not waste the water while brushing and bathing.

Encouragement-5

Topic Environment and Plastic Pollution.....

Date 23/4/18.....

Name - Dev Anand Gupta
 School - DLDV Model School, ND-block, Pitampura
 Class - XII-B
 Contact No. - 011 47568800

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Essay —

The future of Earth will either be green or not at all. There is no love lost for plastic packaging. Whether it is startling images of environmental degradation or the economic loss we suffer to protect it, plastics have been climbing in all the international agendas. So how do 8 million tons of plastic still manage to end up in oceans each year?

Plastics are one of the major threats to our environment. The amount of waste increases as the population grows and plastics keep on accumulating.

We all know that every type of plastic is pretty hard to degrade. If dumped in landfills, they mix up with water to produce harmful chemicals that seep under the ground and degrade our water table. Winds can easily blow plastics away, thus increasing our land litter. If burnt, plastics release a lot of harmful chemicals which, if inhaled, can prove to be fatal.

Plastics are so varied in size that they even affect the tiniest of the organisms such as planktons. They poison planktons and this poison exponentially increases at every trophic level of the food chain thus affecting the immediate predator and hence all. Not only that, but if directly ingested by stray animals, it can choke them to death.

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To fight plastics we have to attack it directly at the roots. We need to find and implement innovative and systematic solutions for the problem. Many institutions and scientists have realized the danger and are proponents of some solutions, such as — The University of Pittsburgh has applied nano-engineering to make a biodegradable replacement of complex multi-level plastic packaging. 'Full cycle bioplastics' and 'Elk packaging' have created a highly compostable compound from farm wastes which can be used for packaging. Many other organisations are also working to make the world a better place.

We as a part of a global family have individual parts to play. Plastics are a boon and not a bane. It is their utilisation and disposal that makes them what they are. Understanding the need of the hour is the key, and it is on us to make plastics and our environment two complementing parts of a whole. Remember, the battle of getting better never ends.

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Topic.....

Date 23-4-18

Encouragement-1

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Cons 1

Gopika Venugopal

class: XII

School: Kerala School

Sec-VIII, R.K. Puram,

New Delhi-110022

Ph. No: 9810433547

Topic - Environment and Plastic pollution.

In today's fast moving world all the people are running behind money. No one has time to even look out for each other. All the people wants to get things done instantly so as to reduce the wastage of time. So people prefer instant food packets, juices, etc. These things are made with plastic packaging.

✓ It's true that these things helps in reducing the wastage of time but is it environmental friendly? No plastic is not environment friendly. It is non-biodegradable substance.

Plastic is a polymeric material that can be shaped or moulded according to our specifications and wants. Polymers can be extracted from nature, from plants, natural gas, mineral oil, coal, etc.

✓ Plastic is a group of monomers that is linked together through the process of polymerisation. There are different types of plastic, thermoplastic, eg- PVC, PET, thermosetting plastic.

Plastic has abundance of use in our daily life. It can be used to enhance the quality of life. In ~~houses~~ today's world we use lots of electronic items which makes our life easy these all electronic items are made with plastic.

Plastic reduces the pressure on ~~non-bio~~ non renewable resources, ~~and~~ pipelines are made with plastic to transport water from one place to another earlier iron pipes were used but the introduction of plastic pipes have stopped it as plastic does not rust and

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Ritika

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is durable so it helps in sustainable development. Plastic also helps in preserving resources, plastic can be used to trap solar energy and it is also a substitute to wood, so it ~~is~~ helps in reducing deforestation. But the question which arise is even ^{after} having this much of advantages, is plastic safe. No is the definite answer. It is non-biodegradable and stays in same stage as it was dumped. It is seen that 100 million tonnes of plastic is generated from this 25 million tonnes of plastic still is same state. The main, easy way of reducing plastic waste is by burning it, but it is not a good idea as it will release carbon monoxide, sulphur dioxide, etc.

The daily consumption of plastic has led to dumping of garbages and many negative impacts of it such as:

land pollution - the plastics are thrown even after one use and as it is non biodegradable, it stay in the same state in the land and affects the vegetation growing there.

Water pollution - plastic is a main factor towards ~~plastic~~ water pollution. When plastic is dumped in water it poisons the aquatic vegetation. Rain water harvesting is a new initiative to increase the level of ground water but the plastic ~~is~~ wastes also runs off with water and makes it unpure. Also plastic blocks the groundwater from ~~is~~ seeping down.

Air pollution - plastic also contributes to air pollution as burning plastic leads to release of toxic gases.

Plastic also affects marine vegetation as often fishes misunderstand plastic as jelly fish and eat them this chokes them to death. Birds also consider the ~~is~~ coloured plastic as their prey. Humans are also affected as plastic leads to many diseases in humans. So the best thing we can do to reduce the usage of plastic to eliminate all these issues.

We think it is easy to implement laws and stop these issues but it is not such easy till we makes efforts

Teacher Signature

Ritika

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Topic... Environmental and Plastic Pollution.....

Date 23/04/19

II

Name - Vaikunari Gupta
Class - 12-A
School - DPS International, Saket
P-37 MB Road, Sector 6
Puchp Vihar, Saket, New Delhi - 110017

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Although the invention of plastics was a revolutionary achievement, in recent times they have become a curse. Traditional plastics are made out of non-biodegradable long chain polymers, and while this makes them durable, it also means that they are extremely hard to dispose off of safely. The other option - burning - is also out. Upon combustion, ~~many~~ plastics ^{like polythene} release toxic gases into the atmosphere. Moreover, ^{only} high quality plastic like high density polythene (HDPE) can be recycled.

Due to these restrictions, most plastic waste is either dumped into the ocean, or into open landfills. These dumping grounds destroy areas of natural beauty and also act as choking hazards for marine and terrestrial animals alike. One can see vast patches of the Pacific Ocean completely engulfed by gigantic floating mounds of plastic waste. Surprisingly, the main contributors to this mess are large 'first-world' countries like the United States. Objects like plastic straws and bottles are used and ~~thrown~~ ^{thrown} without a second thought, and the results of this callousness are now becoming visible.

Although individual contributions ~~are~~ such as 'use fewer polythene' bags are often encouraged, these are followed by a tiny minority of people and are mere drops in the vast ocean of change that is required. To truly make a dent in the pollution problem, government reform

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✓ is required. The government needs to pass robust legislation that regulates the plastic usage and disposal by large corporations. If ~~non-recyclable~~ non-recyclable plastics like LDPE (low density polyethene) are heavily taxed, demand will automatically go down. Large fines on improper dumping of plastics by companies will act as a disincentive, and ~~will~~ will lead to more organisations becoming environmentally conscious. Of course, the government will still need to ensure compliance with these rules.

✓ Apart from ~~the~~ new legislation, there needs to be a large increase in funding granted to environmental research. Recent discoveries have been promising - photodegradable plastics have been developed, and some algal alternatives ~~have~~ have been grown in labs. ~~Recently~~ Recently, scientists manufactured a chemical

✓ that could eat away at plastic. However, we still have a long way to go. For a widespread implementation of these practices ~~involves~~, both government and public support is needed. The world is at a crossroads right now, and we have the chance to decide our own fate.

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Ritika

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are often made of plastic, when they submerged in water they leak toxins, adding more pollution in water which has a terrible impact on marine species and ^{make} difficulties for those who communities who rely on fishing.

Impact of plastic pollution :-

plastic has great Impact on land, water and air. when the garbage is dumps ~~or~~ in litter so, it can seep in groundwater which people drink everyday. It can also harmful for the animals who drink water from river, ponds, lake and litters etc. strong air can carry the plastic with it through the Environment which can stuck in trees, fences or other structures. animals has a risk that consuming of that plastic, if any plastic is eaten by them then it can clog their stomach and causes of their death.

when plastic is burned in open air in large quantity, so it releases releases the toxins in air which pollute the Environment, if it be continuous for a long time then it can cause of respiratory problems to the human being and also for other nature creatures.

Teacher Signature

Ritika

Topic Environment & plastic pollution

Date 23rd April 18

②

NAME :- Lata Bisht

class :- Xth - A

School :- Sarvodaya co-ed senior secondary school, New Delhi - 110029.
Safdarjung Enclave.

PH. NO. ⇒ 9891566861

The dust of plastic garbage costs millions of dollars to cleanup which is the biggest reduction in National income of government on the waste.

what People can do :-

A great way of reducing the plastic pollution is to use jute bags at grocery stores not plastic bags.

All people have to put the Non-Biodegradable products in dustbins not in public area. government can also try something to the reduction of plastic pollution..

⇒ Below are some easy ways to stop plastic pollution :-

i) Bring your own bags (jute) at the grocery store. and say "paper not plastic".

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- ii) stop buying disposable plastic products
- iii) Bring your own Thermos to the coffee shop.
- iv) Don't take any disposable plastic cup, straws and water Bottles etc.
- v) Don't get anything of plastic from outside and always use functions of 4RS.
- vi) Recycle the plastic bags etc.

BY :- Paper,

not plastic.

~~No~~ Thank you for.

Teacher Signature

Ritika

NAME:- Lata Bisht, Xth A

School:- sarvodaya co-ed senior secondary school, N.D-110029
safdurjung Enclave, P.H. NO. - 9891566861

Topic: Environment & Plastic pollution..

Date: 23rd April 18

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600 words

Introduction :-

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The word plastic is derived from the Greek word *plastikos* meaning being capable of shaped. plastic pollution is currently one of the biggest Environmental concerns. plastic pollution occurs when enough plastic has been gathered in an area that it, affects humans, plants and animals etc. and harms our natural Environment. The Amount of garbage (plastic) in the world increases as the population grows and disposable plastic products like, water bottles, milk cartons, cups, straws, etc. accumulate over time. plastic has toxins that damage the Environment and causes land, water and air pollution.

Why and Causes of plastic pollution:

Plastic is cheap and widely available and this lead the overuse of plastic and causes of pollution. plastics such as milk cartons of plastic tinings, soaps with small plastic beads, disposable things or other products are in dumps or in Environment causes dirtness in ground water and affect nearby wildlife. Although fishing is beneficial for economy and supply food to many regions and nets

Teacher Signature

Ritika

Topic 'Environment & Plastic Pollution'

Date 23/4/18

Name: Navya Atal

> 900 words

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Class: Xth - 'C'

School: New Green Field School, Saket, Marg-22, ND-17.

Contact No: 9990078377, 9910399448

Address: H-II/4, Madangiri, New Delhi-62.

'ENVIRONMENT AND PLASTIC POLLUTION'

Since the last decades, plastic pollution has come into consideration of the whole world. We all know that plastic, a wonderful thing from which many our materials are made, is however non-biodegradable in nature and thus, does not readily break down in the environment.

Now a days, many things are being made from plastic. The plastic bags which we use which are made from poly-ethene are highly cancerous. The material from which they are made of is Poly-vinyl chloride (PVC), which is used to make the plastic more flexible and easy to handle. From a baby bottle to the toothbrushes and from a toy to a chair, everything is composed of plastic. Plastic is a very useful material from which certain many countless things are made, but when these things are no use to us, we just throw them in trash. And this plastic, as being non-biodegradable in nature, kept on getting collected somewhere on the earth. Plastic's decomposition takes a thousand years

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to completely vanish and diminish. And if we want to discard it quickly, then we need a large amount of ultra-violet light energy to decompose it. Burning of plastic is also very dangerous, since on burning it many toxic and cancerous fumes are released into the atmosphere, thus causing life-threatening diseases to the living beings.

Throwing of plastic bags or poly-ethene bags into the trash is also very harmful as many animals such cows or dogs feed on the food lying in the trash, and if they swallow plastic, which is indigestible too, ultimately will die due to choking.

Plastic is neither digestible nor combustible, as on doing these will lead to serious toxic conditions in the environment and eventually leading to death of the organisms.

Plastic is very dangerous to human beings also. If plastic content consumed by us, then we may have cancer, skin diseases and choking can also lead to death.

Through the food chain, there is a great chance of plastic being consumed by us.

Plastic over use and careless decomposition has led to plastic pollution in the environment. Marine life is highly disturbed due to this plastic trash thrown into water bodies. Due to it misunderstanding the

Teacher Signature

Ritika

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Date

Name: Navya Atal

Class: X - 'C'

School: New Green Field School, Saket, Marg-22, ND-7

Contact No: 9990078377

Address: H-II/4, Madangiri, New Delhi-62

water animals, such as turtles think of these plastic poly-ethene bags as jellyfish and thus consume them, and ultimately die of choking. Many water mammals are affected due to this toxic pollution. They are affected in two ways: either by entangled or trapped in plastic or by swallowing it.

Both the ways affect the marine life dangerously and thus cause serious extinction of water mammals.

According to the Marine Life Conservation Report (MLCR), there are many deaths of water mammals counting 100,000 fishes due to ~~get~~ swallowing the plastic.

Plastic is being made softer and flexible by adding ~~the~~ certain types of polymer such as polyethylene, polymethene and ~~of~~ many other chemically toxic products, which when ~~are~~ get in contact with the food release their toxic chemicals and thus get mixed with food. And when this food is consumed by the organisms, they are seriously affected by it.

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Throwing plastic or polythene bags in the river or water water or drainage sewers, ~~the~~ lead to clogging of the drains, thus causing water clogging in that particular area. This water clogging if is on a large scale, can ~~led~~ even lead to flooding of water. We should know the correct disposal of plastic bags and if possible should practice certain simple measures to control this incrementing plastic pollution. They are -

- We should not throw plastic bags into the drainage or sewers, otherwise clogging can cause flooding of water in the region.
- We should avoid the use of poly-ethene bags while moving for market and instead, should carry cloth or paper bags, which are degradable in nature and are even not toxic.
- We should reuse plastic materials rather than ~~through~~ throwing them in the trash, ~~it~~ as this practice will stop more production plastic and will also cease the harmful decomposition of plastic as well.
- We should not keep or carry our food in plastic or polyethene bags since these bags on coming in contact with the food release their toxic chemicals thus making the food cancerous and toxic to eat.
- We should even not burn plastic as

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Ritika

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on burning plastic many toxic fumes are released into the environment and thus making the air also harmful and dangerous to breathe in.

According to the reports and recent surveys the plastic content is increasing in the water bodies harming the plants of the sea and oceans as well, thus causing an overall disturbance of in the environment.

Plastic pollution also litters the landscape. If certain many poly-ethene bags are lying messily and dirtily on the roads, around the trash bins, then the beauty of the landscape is also polluted.

Thus, we should take all these things in concern and must take necessary measures to control this increasing pollution of plastic and should have proper disposal and usage sense while handling plastic.

As being responsible citizens of this wonderful nation we should not block the progress and productivity of our country by adding the rodents life like such plastic pollution.

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Topic..... प्लास्टिक प्रदूषण और पर्यावरणDate 23.04.2018

PAGE No. - (1)

NAME - Pushpak Kumar Roy, CLASS - X CRoll NO. - 03, SCHOOL → Govt. Sarwodaya Co. Ed. VidyalayaSCHOOL ADDRESS → B-4, PASHIM VIHAR = 110063CONTACT No. → 7678483300

प्रकृति के द्वारा हमें परदान स्वरूप अनेक वस्तु प्राप्त हुई हैं। ईश्वर ने हमें प्रकृति और मानव, जो कि अपने आप में एक अनुपम कृति है, वह दी है। परन्तु आज मनुष्य अपनी उच्छाओं की पूर्ति के लिए निरंतर इसका दुरुपयोग कर रहा है। मनुष्य ने ईश्वर की अनुपम कृति को दूषित अर्थात् गंदा कर दिया है। मनुष्य द्वारा विकसित प्लास्टिक जिसका अविष्कार सन् 1862 में इंग्लैंड के एलेक्जेंडर पार्क्स ने किया था, जिसका प्रयोग आज इतनी मात्रा हो रहा है, कि उससे पृथ्वी के चारों ओर चार बार घेरा बनाया जा सकता।

प्लास्टिक मुख्यतः दो रूपों में वर्गीकृत है। थर्मोप्लास्टिक (पॉलीस्टायरीन, पॉलीविनाइल क्लोराइड) और थर्मोसेटिंग प्लास्टिक। इन दोनों प्रकार के प्लास्टिकों का उपयोग बड़े स्तर पर किया जाता है। प्लास्टिक को बायोप्रिबल, इंजिनरिंग के रूप में भी वर्गीकृत किया जाता है। ये प्लास्टिक बेहद मजबूत, लचीले होते हैं। इसी कारण इनका उपयोग बड़े स्तर होता है। प्लास्टिक का उपयोग हर जगह किया जाता है - जैसे :- यह एक बिजली रोधक भी होता है, इसीलिए इनका उपयोग बिजली के तार बनाने में, बिजली रोधक दस्ताने, जूते आदि बनाते हैं।

दरों में भी इसका प्रयोग अनेक तरह के बरत सामानों के रूप में किया जाता है।

एक अध्ययन से यह बात हुआ है, कि भारत में प्रति-व्यक्ति 3 कि.ग्रा. प्लास्टिक इस्तेमाल में लाया जाता है। अगर वैश्विक रूप से देखें तो भारत में लगभग 4

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लाख टन प्रतिवर्ष प्लास्टिक का निर्माण होता है।
इस साल लगभग 70 लाख टन प्लास्टिक समुद्रों में फेंक दिया जाता है, जिसके कारण प्रतिवर्ष 1 लाख जलीय जीवों की मृत्यु हो जाती है। कुछ समुद्री जीवों की प्रजातियाँ लुप्त होने के कागार पर हैं। जैसे - डेज, ऑलफिन, शील तथा क्यूरें आदि। प्लास्टिक की तादाद इतनी बढ़ गई है, कि उत्तरी ध्रुव के तट के निकट से दक्षिण में फॉक्लैंड द्वीप तक प्लास्टिक के सामान देखने को मिलते हैं। धीरे-धीरे पृथ्वी पर प्लास्टिक का युग खतम जा रहा है।

प्लास्टिक के कारण वायु प्रदूषण, जल प्रदूषण, भूमि प्रदूषण दिन-प्रतिदिन बढ़ता जा रहा है। प्लास्टिक में पाए जाने वाले विषाक्त रसायनों से सभी प्रजातियों को हानि पहुँच रही है, फिर चाहे मानव ही या जानवर। एक शोध से यह पता चला है, कि हमारा शरीर प्लास्टिक में पाए जाने वाले विषाक्त रसायन जैसे - बेन्जीन, जायलिन, पॉलीविनाइल क्लोराइड जिसका उपयोग पी.वि.सी (P.V.C) पाइप बनाने में किया जाता है, पाये जाते हैं। इन्हें खौबता है, जिससे कैंसर, स्कीन कैंसर इत्यादि बीमारियाँ होती हैं। प्लास्टिक की बोतलें जिनमें हम पानी पीते हैं, इसमें प्लास्टिक के रसायन मिलकर उसे विषेला बना देते हैं, और हम उसे पीते हैं। एक शोध के अनुसार 6 साल से ऊपर के अमेरिकियों (1939) में बी.पी.वी (B.P.V) पाया गया है। प्लास्टिक को जलाने पर वह पूरी तरह से विघटित नहीं होता है। प्लास्टिक से निपटने के लिए वैज्ञानिक तरह-तरह के शोध कर रहे हैं।

एक शोध के दौरान वैज्ञानिक से गलती होने के कारण एक इस प्रकार का संज्ञात्मक विकसित हुआ, जो प्लास्टिक को आसानी से खाकर खत्म कर देगा। लंडन यूनिवर्सिटीज के प्रोफेसर जॉन मैकगीडम के अनुसार यह संज्ञात्मक द्वैधालिक प्लास्टिक को खाकर खत्म कर देगा।

Teacher Signature

Ritika

NAME - Pushpak Kumar Roy
CLASS - X C, SCHOOL - Govt. Sarodaya CO. Ed. Vidyalaya
SCHOOL ADDRESS - B-1 PASCHIM VIHAR

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समिति ऐडिड देने पर यह संजाम और तेजी से काम करेगा। इसी प्रकार प्लास्टिक की समस्या से निपटने के लिए मसुरी के निवासी "राजगोपालन" वासुदेवन जिन्हें "प्लास्टिक में ऑफ इंडिया" कहा जाता है। इन्होंने एक इस प्रकार की मशीन तैयार की जिससे प्लास्टिक से रोड बनाया जा सकता है। और इन्होंने सन 2002 में एक ऐसी रोड तैयार की।

कुछ इसी प्रकार जलंधर के रहने वाले अजय पलठा ने ऐसी मशीन तैयार की जिससे प्लास्टिक को परिवर्तित करके केरोसीन, डीजल, पेट्रोल आदि बनाया जा सकता है।

ऐसे अनेक आविष्कारकों ने अपने आविष्कार से इस समस्या का समाधान किया है। हमारी सरकार का यह फायदा होना चाहिए, कि वह इन आविष्कारकों को पूरी तरह से सहायता प्रदान करें। फिर चाहे आर्थिक रूप से ही या कोई और। अगर सरकार इन्हें आर्थिक सहायता प्रदान करेगी, तो ये अपने आविष्कार को सिर्फ राज्य तक नहीं बल्कि विश्व स्तर पर ला पायेंगे। और आम लोगों को प्लास्टिक से बनी चीजों का कम से कम उपयोग करना चाहिए। और अपना भौगिक वातावरण को सुदृढ़ बनाने के लिए बढ़-चढ़कर देना चाहिए।

Teacher Signature

Ritika

Topic... Environment and Plastic Pollution

Date 23-4-2017

Sarthak Sethi

Class XII-B

DPS International, Saket

8/10

AR

II

School Address : P-37, MB Road, Sector-6, Poochp Vihar, Saket, New Delhi

In an ocean of blue, imagine a jellyfish, entrapped in a bag of plastic, suffocated by its hold. Picture a cow, starving and choking, undigestable plastic filling its stomach. Thinking of a landfill, hundreds of feet high, an overwhelming world of plastic and waste. This is the reality we're creating.

When you drink water from a bottle, eat lunch from a styrofoam box, bargain for vegetables - You're using plastic. You're generating waste that does NOT decompose, that will fill our bins, our houses and our land for decades to come. Amidst all the conversation, debate and discussion over carbon, global warming, nuclear waste; we're ignoring one critical, crucial factor - Plastic, and this plastic is generating bio-chemical waste that is toxic to our environment. However, this fundamentally begs the question, how do we systematically mitigate the effects of this ecological disaster? It is not easy.

It begins with you and I, and a renewed effort to reuse and recycle. You and I need to demand for policy and legislation that systemically prohibits the use of plastic. We need to invest in enzyme research that works towards the possible decomposition of this substance. Globally, there needs to be a shift towards other, sustainable materials. Materials that are subsidized by our governments, and made cheaper by 'economics of scale'. The end to this plastic nightmare will be the product of a change in our commercial, corporate culture, that ignores environmental needs for selfish profit-maximization.

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To simply talk of the hazards of our consumer commercialised, consumer-centric behaviour is completely redundant, particularly if not combined with actual, substantive SOLUTIONS. Simply put, the onus of this now falls on you and I. Without reform, we fail to save that entrapped jellyfish, fail to save that starving cow, and fail to stop our lands from becoming mines of plastic. You're aware of the problem, now change it.

Teacher Signature

Ritika

Topic... ENVIRONMENT AND PLASTIC POLLUTION

Date 23.04.18

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Environment and Plastic Pollution

appx 550 words

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"What we sow is what we reap." clearly satisfies the working of this nature and our precious environment. As we know, we have been living in a complex blend of five basic elements which together constitutes this mother earth. But what if we tend to destroy and harm this blend through various means. Would it be possible for us to live and sustain our existence?

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Clearly, answer would be no because of the deteriorating effect of what we are doing in order to for development and for sake of humanity and coming generation. A major effect of our steps leads to one of leading problems as named as pollution. This has a numerous of categories but one of which is misleading our development and dragging us to destruction is 'plastic pollution.'

Clearly as of a genuine concern, we know what pollution is so what we can surely relate what plastic pollution must be. But what is needed to emphasize is that, the increasing no. of plastics has led to many problems which are taking the form of devastating results. Plastics in environment
Plastics do act as a helping hand but then also are polluting land
Plastics in environment, though being useful, so far as domestic purpose is concerned, are actually harmful if seen with the point of view of nature and its components. Primarily, it is a non-biodegradable material, which at least takes thousands and thousands of years to degrade. Also, scenario nowadays is such that, no one actually uses plastics (precisely plastic bags) more than once, thus there

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is an assimilation of more and more of these leading to unnecessary storage. Further if thrown out them, stray animals tend to swallow them leading throat chokes and finally death. If burnt, then they actually release gases which are not eco-friendly.

✓ If gone to information of preciseness, then clearly 50% of plastics that are being used are not been recycled. Los Angeles releases about 10 metric tons of plastic in Pacific Ocean every year. According to a research, about 70% of plastics what we use, can not be recycled so thereby leading to either unnecessary storage or harmful discarding of these ones. At a glance, apart from land, it has a deteriorating effect on water and marine life too.

✓ According to a research, about 80% of marine animals' death have been found due to discard of plastic materials ^{directly} into water bodies. As plastics can float, thus their direct removal leads to formation of floating layer on the surface of water which actually makes marine animals to breathe due to underwater. To be precise, almost 5 out of 10 turtles die every year ^{either} due to inadequate supply of oxygen underwater or the chemicals as released by them.

✓ So, after all this, who would like to use plastic. But they can't be fully discarded as almost 70% of our daily household materials all over the world is plastic only. But rather we can reduce this usage by making use of alternatives like biodegradable plastic such as PETE - Polyethylene Terephthalate and HDPE - High Definition Polyethylene.

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Further we can go by reducing or almost discarding plastic storage materials and plastic bags and making an alternative of jute, woolen, nylon bags and metals and glass jars.

Atlast the one and the only way to deal with this problem is, "Green revolution, the only solution to fight pollution!"

Teacher Signature

Ritika

Topic Environment and plastic pollution

Date 23/4/18

1

Name \Rightarrow Sofiya Khan.

Class \Rightarrow XII-A

School name \Rightarrow Govt. Girls Sn. Sec. School, M.B Road, Pushp vihar, sec-1, Saket, New Delhi-17.

A

Contact no. \Rightarrow 8800268587

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Today, we can see that many people are talking about environmental pollution and other consequences. But actually they are just talking about it. They do nothing for it. And it will do really very harmful effects on earth and on us also. So, today we are talking about environmental pollution and plastic pollution. Actually these terms are not different from each other. They are correlated with each other because they both are destroying our earth. Plastic pollution is itself a cause of environmental pollution.

Environmental pollution

It refers to the introduction of pollutants into the environment. It contaminates our environment. This is creating hazardous effects on living beings.

Causes

- i) Industrialization and Urbanization \Rightarrow Industries are placed in populated areas and they dump their wastes into river waters which is harmful for not only us but also for the fisheries.
- ii) vehicles \Rightarrow vehicles create lots of harmful gases like NO_2 and SO_2 which leads to global warming and acid rain.
- iii) Population overgrowth \Rightarrow In developing countries, population overgrowth is the major problem for environmental pollution.
- iv) Dumping solid waste \Rightarrow Solid waste goes into river water and it contaminates water.

All these causes of environmental pollution that effects our life leaves us wondering if all our achievements and Industrial civilization really help us to climb the peaks of prosperity or simply takes

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us down the blind alleys of adversity.

Effects of Environmental pollution

- (i) Brain and heart complications ⇒ Brain and heart are the most sensitive organ and by pollution these are being affected badly.
- (ii) Respiratory problems ⇒ There is no fresh air to breathe.
- (iii) Global warming ⇒ Temperature is going on increasing and it can melt our polar glaciers.
- (iv) Deforestation ⇒ Plants give many things to us like O_2 and people are cutting them. So there will be no life on earth without it.

"We do not inherit the earth from our ancestors.
we borrow it from our children."

Now-a-days a new problem arises called plastic pollution which is creating many harmful effects.

Plastic Pollution

Plastic pollution is the accumulation of plastic on our land that affects animals and human beings. Plastic are inexpensive and durable, as a result level of plastic pollution is high. Some incidents related to plastic pollution have attracted the attention of the whole world and put a question mark on the use of plastic in daily life.

✓ Acc. to the Marine conservation, over 2500 Fishing lines were collected in US beaches during 1996. Plastics are very flexible and can change their shape depending on temperature and pressure. Many chemicals like polyethylene, formaldehyde and urea are use to make it.

✓ Now-a-day the most popular plastic is polyvinyl chloride (P.V.C.). when any food material or blood is stored in the said plastic, the soluble chemicals gets dissolved into it and can cause death due to cancer and also causes some skin problems.

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when (P.V.C) is dissolved in water it can cause paralysis and infertility to some animals.

Causes

Plastic is used because it is easy and cheap to make. Actually these useful factors of plastic makes it a pollution problem. It takes a lot of time to be discarded. Its chemical structure makes plastic resistant to many natural processes. All these factors makes plastic a wonder material as well as a disaster.

Effects

- (i) On turtles \Rightarrow A polythene bag is looks like tasty jelly fish to the turtle. But plastic is indigestible, it can choke, block the intestines and finally leads to death.
- (ii) Soil pollution \Rightarrow our soil become infertile because of plastic.
- (iii) The petrel chicks \Rightarrow Acc. to the survey 90% of petrel chicks had plastic in their stomach apparently fed to them accidentally by their parents.
- (iv) Water pollution \Rightarrow Plastic makes water unsafe for drinking.

Now, we don't talk about environmental pollution and plastic pollution differently, they are same, they are destroying us. So we have to do something for "pollution". Pollution is created by the activity of humans and it is our responsibility to do something for it.

Control the pollution

- (i) USA has banned the use of P.V.C plastic, India should immediately banned this for food materials and medicines containers to avoid any more disease to them who are already suffering from different ailments.
- (ii) Remember plastic is not a problem. The problem is the excessive use of it with one off application together with careless disposal.

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- (iii) Petroleum, the precious resource should not be wasted on producing plastic.
- (iv) we use everything made from plastic but the problem arises when we no longer have to use them and we have to dispose off them
- (v) Use papers and cloth bags, avoid plastic.

It is our duty to save our earth because we have nowhere to go.

"PLASTIC GIVE A HELPFUL HAND"

"BUT THEY ARE POLLUTING
OUR LAND."

Teacher Signature

Ritika

III

530 words Pg-1

SR

Topic... ENVIRONMENT & PLASTIC POLLUTION

Date

Name: MICHELLE RUTH P.A.

School: Kerala Education Society S.H. Sec. School. R.K. Puram.
Sec-8, New Delhi-11002.

Contact: 9990017192, 8810487092.

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III

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ENVIRONMENT AND PLASTIC POLLUTION.

Cattle's munching away at plastic bags have become a common sight now a days. This shows how concerned we should be towards reducing plastic pollution in our environment.

As the world's population is increasing the number of plastic waste produced is also increasing. In our on-the-go lifestyles we require easily disposable products such as soda cans and bottles of drinking water. But the accumulation of plastic wastes also leads to the increasing amount of plastic pollution in our environment. Plastic contains toxic compounds which are known for causing illness.

Plastic pollution is when plastic is gathered in an area is causing negative impact on the environment and creates problem for plants, wildlife and even to human population. Often this include killing of plants and local animals. Plastic is highly useful but is also made of ~~plastic~~ harmful toxic compounds which are highly harmful and since its made for durability it is not bio degradable.

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✓ Plastics have not always been a problem to the environment. The use of polybags, plastic bottles and other major pollutants has increased only after mid 80's.

Though plastic is a very useful product in our day to day life its effects on our environment is threatening. These are the major problems plastics cause:-

- ✓ → Plastic has low melting point thus it ~~soft~~ expands while heating.
- Pollutants emitted by industries contaminate the air and cause respiratory problems, nervous system disorders and immune suppressing problems.
- ✓ → Plastic waste in freshwater contaminate and poison the freshwater life and through freshwater it enters the human food chain and cause great harm.
- Plastic ~~packaging~~ packaged food are harmful for human consumption.
- Plastic debris clog the sewage and create stagnant water which are an ideal habitat for mosquitos and other parasites. Clogged sewage also cause flood during monsoon.
- ✓ → The intake of plastic wastes by cattles usually at garbage bins lead to their death.

✓ Not all kinds of plastic are harmful to the nature. ~~Research~~ Research says that plastic below the thickness of ~~50~~ ²⁰ microns cause the most damage to our surrounding.

Teacher Signature

Ritika

Topic.....

Date

Name : Michelle Ruth P.A.

School : Kerala Education Society Sr. Sec. School.
R.K. Puram Sec-8 New Delhi -110022.

Contact : 9990017192, 8810487092.

Did you know that more plastic has been produced in the last decade than the whole last decade? Also the ocean contains millions of pounds of plastic waste. As citizens of a cultured society it's our responsibility to do as much as we can to contribute towards the reduction of plastic pollution in the environment. The followings are few things we can do:-



Say "no" to disposable plastic water ~~bottles~~ bottles. Carry reusable bottles and refill it.



Stop using poly bags while shopping. Instead carry your own bags from home.



Wear yourself off disposable plastics. Ninety percent of the products we use are disposable plastics. Take note and replace these with reusable versions for your own good.



Recycle, Reuse and Reduce.



Purchase second hand.

New toy, electronic gadgets usually are made of hard to crack plastic. It's best to buy second hand, you'll save yourself a few bucks too.

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→ Cook more.

Not only is it more healthier but also making your own meals do not involve plastic packaging.

✓ Therefore, At next time you go for shopping, don't forget to carry a paper or cloth bag. Also, try to avoid bringing home plastic bags and purchasing items with no much packaging. This way you can help in contributing towards the environment in the form of reducing plastic pollution whose ill effects are irreversible.

Teacher Signature

Ritika

Topic: Environment and Plastic Pollution.....

Date

Name: Vanshika Goswami

4/10 SR

Class: Xth ASchool name and Address: D.A.V. Public school, Ashok vikas, Ph-IV, Delhi-52Contact number [student]: 9717467157Topic: Environment and Plastic Pollution

Very wisely said that Earth is a miracle, god's grace that we all share. It's not yours, not mine but ours and we belong to it.

Environment is everything including us. A healthy environment support our growth, nutrition and existence. However, now a days, the manmade environment is problematic for the natural environment which leads to disturbance in the equilibrium of nature.

A major part of this manmade environment is plastic.

Many people believe that plastic is the wonder material whose invention has revolutionised the manufacturing industry. Careless disposal of plastics can result in dire consequences. Plastic is very commonly used because it is cheap and easy to make and have a long life. Unfortunately, these very qualities have forced plastic as a huge pollution problem.

Even the production of plastics is not green. The plastic producing industries have chances of injury because of the machinery used, have fire issues because of the combustibility of plastics and health issues because of the chemicals used in the industry.

Plastic is an artificially created polymer which has the ability to live a century before the Earth is able to degrade it.

Therefore, the plastic waste in the oceans is steadily increasing. This can harm the marine wildlife in two ways: either being eaten or trapping the creatures. This fact cannot be hidden that it is non-biodegradable and produces toxic fumes when allowed to burn. As the cost of crude oil is increasing, at the cost

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of its manufacture is also increasing. This fact cannot be hidden that it causes choking of respiratory or digestive tract when swallowed upon. A report claimed that hundreded cattles die daily in U.P. in India due to choking of plastics. This problematic material can also choke sewage system which may lead to flooding as was experienced in Mumbai, India in 1998.

Environmental protection measures should be taken to curb this problem out of the world. Environmental protection act is introduced by governments of various countries, ⁱⁿ which various measures are being taken to protect human and other species and environment. Earth day, celebrated each year worldwide on 22nd of April is a great initiative for sensitizing people about environment.

"Every drop creates a ripple."

So everyone should contribute their bit. We should use paper, canvas and other healthy fibre bags. We should use glass or metal containers that store food well, have a long life, and are hygienic and eco-friendly. The bottled water costs 1000 times more than tap water and augments to plastic waste. So, we should prefer tap water over bottled water. We should also support plastic bag tax or ban. There are many states and countries that have implemented plastic bag ban. Recycling is also a great initiative. It includes distinguishing and then processing of plastic. ~~A new~~ The problem of plastic pollution, traffic and weakening of roads has got a common solution of 'Plastic roads'. This invention uses hard plastic waste for ~~no~~ constructing roads. We should support these initiatives and 'be a part of the solution, not a part of pollution.'

Continued →

Teacher Signature

Ritika

Topic.....

Date

Name : Vanshika Gowami

Class : Xth - A

School name and Address : D.A.V. Public school, Ashok vihar, Ph-N, Delhi-52

At the end, I would like to conclude up by saying that Plastic is not a problem itself. It is a useful resource which have great pros over cons. The problems are created by its excessive usage. In my point of view, As Archeological survey of India unearths, digs secrets of history and other excavations; in future all they would find is Plastic.

“We are using nature as a credit card endlessly.”
We should use it and ourselves as a resource for the betterment of all.

Teacher Signature

Ritika