



**TO DEVELOP THE GENERAL AWARENESS ABOUT GLOBAL WARMING  
AMONGST PRIMARY SCHOOL STUDENTS THROUGH DIFFERENT  
ACTIVITIES. (AN EXPERIMENTAL RESEARCH)**

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**Abstract**

*Present paper deals with the awareness about Global Warming among the primary school students. As we know that today's hot topic of whole world is Global Warming. due to global warming, we can see many hazardous effects on environment. Our attitude towards the use of environmental resources must change. We must re-educate ourselves to treat the environment with greater caution & control. Primary level students are very small children but this is the stage in which we can teach them the value of environment and different activities of human being due to which such a dangerous problem like Global Warming is arises. This is the small effort of the researcher in which he tried to create awareness about Global warming at primary level through different activities.*



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**INTRODUCTION**

Environment is the vital component of society. Nature is capable of providing man with everything that he needs, not only for self-sustains but also for making his life fully comfortable. Nature has five elements, air, land, water, flora & fauna which are interconnected and interrelated. If there is deterioration in any one, it affects the other four elements and natural environment at large. Nature gives lots of things for the comfort of the man. Nature also allows man to use his valuable resources freely. However, man destroyed every thing for his stabilization. With the global acceleration of industrialization, use of technology & deforestation, environmental problems and resources storage is reaching at critical point. We have exploited the natural environment as per our will, which results several environmental crises. There are many environmental problems which are created by human being due to their unwanted activities like deforestation ,Industrialization. The drastic increase in emission of CO<sub>2</sub> caused by burning fossil fuels has been identified as the major reason for the global climate change and increasing global warming. Now this is the time that we should educate ourselves for the protection of our environment. Our attitude towards the use of environmental resources must change. We must re-educate ourselves to treat the

environment with greater caution & control. So, there is a need to give prime importance to environmental education. Education is a process which helps to develop human competency to live as an integral part of human society and environment.

### **NEED AND IMPORTANCE OF STUDY**

Global warming is the rise in the average temperature of Earth's atmosphere and oceans since the late 19th century and its projected continuation. Since the early 20th century, Earth's mean surface temperature has increased by about 0.8 °C (1.4 °F), with about two-thirds of the increase occurring since 1980. Warming of the climate system is unequivocal, and scientists are more than 90% certain that it is primarily caused by increasing concentrations of greenhouse gases produced by human activities such as the burning of fossil fuels and deforestation. These findings are recognized by the national science academies of all major industrialized nations.

Raising awareness about global warming is very important; it has become a big issue that is now happening. It will probably will be one of the biggest problems in the future. People can get ready for what they might face with Mother Nature. Not a lot of people is aware of what is happening and what their doing to the earth such as cars, wasting electricity, using to much energy. Global Warming is melting the ice caps and forming them to water and makes the sea level higher. It's a really an important and interesting issue to learn and raise awareness of.

Global Warming Awareness is a movement that aims to stop global warming: its participants should be aware of the social, political and economic consequences that climate change may have on huge parts of the mankind.

### **EFFECTS OF GLOBAL WARMING**

1. **Rising Sea level:** Flooding of fresh water of fresh water marshlands, low-lying cities, and islands with marine water is one of the major effects of global warming.
2. **Changes in rainfall patterns:** In some areas, droughts and fires happen, whereas in other areas, flooding takes place. This all is due to changes in rainfall pattern.
3. **Melting of the ice peaks:** Due to melting of the ice peaks, there is loss of habitat near the poles. Now the polar bears are considered to be greatly endangered by the shortening of their feeding season because of declining ice packs.
4. **Melting glaciers:** There is a significant melting of old glaciers.

5. **Spread of disease:** There is spread of diseases like malaria due to migration to newer and currently warmer regions.

6. **Thinning of Coral Reefs** due to warming seas as well as acidification because of carbonic acid formation: Almost one-third of coral reefs are now severely damaged by warming seas.

7. **Loss of Plankton** owing to warming seas: The large (900 miles long) Aleutian island ecosystems consisting of whales, sea lions, sea urchins, kelp beds, fish, and other aquatic animals, has now reduced due to loss of plankton.

### **Importance Of Global Warming Awareness To Primary School Children**

The environment is constantly in the news and it is also becoming a hot topic in schools throughout the world. The environmental awareness of children is therefore something that is becoming increasingly important – something that many people feel is a significant factor for the future of the planet. Children specially from the primary levels are the future of the planet. This is the exact age where they learn many different things so at this age of stage only they should be educated with environmental education. It may happens that they could not understands many concepts in environmental education or hazards of pollution of environment so that they can not understand the importance of the topic so it is the duty of teacher to aware them with the help of small activities. By using such activities for primary level students we can create awareness among them. There are various different things that teachers and parents can do to help a child to understand the impact that humans have on the world.

### **STATEMENT OF STUDY**

To Develop the general Awareness about Global Warming amongst the primary school students through different activities. (An Experimental Research)

### **OPERATIONAL DEFINITIONS**

#### **1) General Awareness:**

According to Oxford dictionary awareness means having knowledge and cognizance consciousness, knowingness, cognizance of anything.

**2) Global Warming:** The term "global warming" refers to the increase in the average temperature of global surface air and oceans since about 1950, and to continuing increases in those temperatures.

**3) Primary School Student-** The students studying from class 1 to 8 standard.

## OBJECTIVES OF THE PROBLEM

1. To study the general awareness amongst the primary school students about Global warming..
2. To study the effectiveness of different activities on Global Warming Awareness at Primary level.

## HYPOTHESES OF THE STUDY

There is no significant difference between the Pre and Post test of Global Warming awareness amongst the primary school students.

## SCOPE OF THE STUDY

The study is to analyze the general awareness about Global Warming amongst the primary school students of the English Medium School.

## LIMITATIONS OF THE STUDY

1. The study will be confined to English Medium schools of Nagpur .
2. The study will be confined to students of 5<sup>th</sup> class of primary school.

## VARIABLES

1. Independent : Global Warming awareness Tests.
2. Dependent : Pre and Post test Marks
3. The study will be confined to fifth standard students of a English Medium School of Nagpur.

## POPULATION

It is impossible to study the whole population for the research work. So, it is impossible to study all school of Nagpur city. Therefore for this research study only 1 school i.e. Bhonsala Public school of Nagpur has been selected from Nagpur city.

## SAMPLE

. From the Bhonsala Public School only 50 students both boys and girls were selected

**Table showing selection of sample**

Sr.no.	Name of Schools	class	Boys	Girls
1.	Bhonsala Public School,Nagpur	5 <sup>th</sup>	25	25

**METHOD OF STUDY :-**For present study researcher had adapted experimental method .

**EXPERIMENTAL DESIGN:-**The present Experiment was designed as pretest-post test single group design.

## TOOLS

1) Pre-test and Post Test

Different Activities :-1) word match 2) puzzle game 3) word search

4) Role playing : a) Known environment b) unknown environment

## PRE-TEST AND POST TEST

Researcher has prepared a pre test and post test of 20 marks on Global Warming awareness. In which He added objective type questions in the form of pictures, match the pair, name things etc. The Pre test was taken before the activity and post test was conducted after the activity.

**PROCEDURE OF ADMINISTRATION:-**Researcher gives pre test to the students in which 20 objective type questions are given to know the previous knowledge or awareness of the students about Global Warming. after that he has conducted some activities for students which are based on the information about Global Warming and after these activities he conducted post test on students.

## Different activities of global warming awareness

### ACTIVITY NO.1

### WORD MATCH

See if you can fit the words on the next page into the correct spaces in the puzzle below.

The fourteen words printed below can be matched up to make seven new phrases. Match a word from the left hand column with a word from the right hand column, (choose a word from the left-hand column first) and see if you can do it!

**CARBON**

**LEVEL**

**GREENHOUSE**

**EFFICIENCY**

**GLOBAL**

**VAPOUR**

**OZONE**

**EFFECT**

**WATER**

**DIOXIDE**

**ENERGY**

**HOLE**

**SEA**

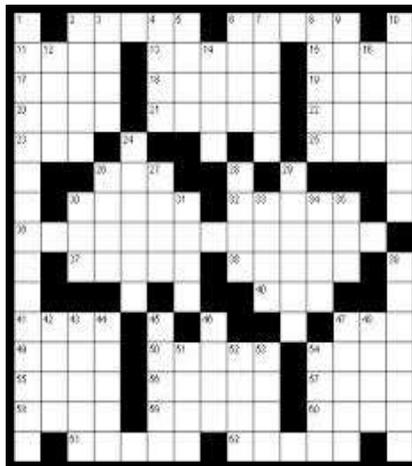
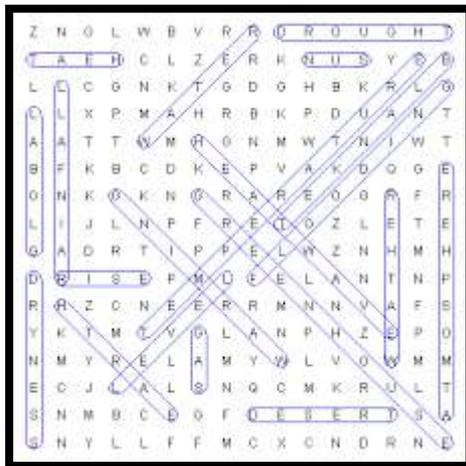
**WARMING**

**ACTIVITY NO.2**

**PUZZLE GAME**

**SEA                    CFC**  
**LEVEL                ENERGY**  
**CARBON              GREENHOUSE**  
**GLOBAL              ATMOSPHERE**  
**SOLAR                WARMING**  
**FOSSIL                FUEL EFFECT**  
**OZONE                GAS**  
**WEATHER            POLLUTION**

A Teachers copy of the completed word puzzle is printed below.



**ACTIVITY NO.3**

**WORD SEARCH**

The words printed at the bottom of the page are hidden in the word search box. How many can you find?

a	u	c	f	j	h	g	h	s	n
t	d	a	n	g	e	r	o	u	s
m	o	g	h	f	g	j	s	n	l
o	o	i	c	e	b	e	r	g	s
s	l	m	g	a	a	f	s	d	f
p	f	w	a	r	m	i	n	g	k
h	x	t	s	t	t	b	z	c	d
e	h	g	s	h	d	s	i	e	c
r	f	b	e	a	r	s	r	v	f
e	j	d	s	e	y	r	v	f	d

Sun, warming, gasses, earth, bears,  
 sickness, atmosphere, iceberg,  
 dangerous, flood.

**ACTIVITY NO.4**

**WORD SEARCH**

**GREENHOUSE RIDDLE**

**Can you solve this riddle to make two words  
 connected with the greenhouse effect?**

The first one has been done for you!

My 1st is in recycling and also in gas

My 2nd is in invisible and also in laugh

My 3rd is in coal but not in chalk

My 4th is in carbon but not in carton

My 5th is in air and also in man-made

My 6th is in layer but not in yesterday

My 7th is in weather and also in wind

My 8th is in car and also in walking

My 9th is in water but not in wasteful

My 10th is in tram but not in train

My 11th is in air but not in Earth

My 12th is in radiation and also in Sun

My 13th is in energy and also in gas

9									
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Enter the letter from each riddle in the boxes below

**ANALYSIS OF HYPOTHESIS**

**HYPOTHESIS NO. 1:-** There is no significant difference between the scores of Pre and Post test of Global Warming awareness amongst the primary school students..

**Table NO.1 The mean, standard Deviation and t Value of the test on Global Warming awareness.**

Group	N	M	SD	t Value	Table Value
Pre-test	50	14.22	2.66	20.19	0.01 -2.81
Post-test	50	24.94	2.59		0.05– 2.07

**Observation:**

From the above table it is seen that the mean of Pre Test of Global Warming awareness is 14.22 and post test is 24.94 S.D.is 2.66 and post test is 2.59 and 't' value is found 20.19 which is in significant there for the hypothesis is rejected which indicates that there is significant difference between the performance of Pre Test & Post test of Global Warming awareness.

**Conclusion :**

We can create awareness about Global Warming at primary level through different activities.

**STATEMENT OF HYPOTHESIS NO. 2**

There is no significant difference between the performance of Girls & Boys in the Post Test scores of Global Warming awareness.

**Table No 2 The mean, standard deviation and 't' value of the Global Warming awareness**

Group	N	M	SD	'T' Value	Table value
Girls	25	12.96	0.9992	33.23	0.01 -2.81
Boys	25	22.08	0.93466		0.05– 2.07

**Observation:**

From the above table it is seen that the mean of Girls of Global Warming awareness is 12.96 and Boys is 22.08 S.D.is 0.9992 and Boys is 0.93466 and 't' value is found 33.23 which is in significant there for the hypothesis is rejected which indicates that there is significant difference between the performance of girls & boys pre and post test of Global Warming awareness

**Conclusion :**

It is seen that Global warming awareness in boys is more than that of girls.it may be possible that boys are participating more interestingly in activities than girls.

### CONCLUSIONS:-

1. Global Warming awareness created through various activities helped magnanimously.
3. Post – test was more effective than Pre - test
4. The activities conducted in Global Warming awareness were more effective.
5. students enjoyed activities more.
5. There is significant difference between the performance of pre - test and post – test scores of Global Warming awareness.
6. There is significant difference between the performance of Girls & Boys post – test scores of Global Warming awareness.

### SUGGESTIONS :-

1. Teacher can conduct some more activities at primary level to create awareness about environment.
2. A subject of Global Warming awareness can be added in the syllabus for primary & Primary school level.
3. Various programs should be arranged by the school for Global Warming awareness.

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