



SUMMER VACATIONS ARE HERE!

Dear Children,

You must be excited at being promoted a class higher, after the sweat and toil of the exams and the prospect of the long awaited summer break!

Summer break! It's the time to enjoy and learn while you have fun! To add to your fun, we have put together an exciting assignment that will ensure that your creative self is motivated and happily occupied.



This summer, our theme is Innovation. Keep your creative juices flowing. We also want you to do your bit for our planet. The topic for Class 4 is 'Pollution and Environment' to focus on saving our planet.

While working on this holiday assignment do keep a few points in mind:

1. We do not want anything fancy or outsourced. We would love to see 'your' work and appreciate your efforts. Of course! You can take the assistance of an adult, but it's your original work that will fetch you kudos from your teachers.
2. Try to use waste material to do your assignment as we want to see 'best out of waste'.
3. Use the unused side of used sheets or use leftover pages from your old note books.
4. Make a folder/ file using old newspapers/ shopping bags / waste paper.
5. Decorate your folder with pictures/colour / decorate/ paint to beautify your project. Make it attractive, but use only waste materials.
6. Divide your folder in sections, subject-wise.
7. Neat handwriting is an asset so practice writing a page in neat handwriting every day.

ENGLISH

Task: To investigate and create an innovative solution (think out of the box) that would help in reducing pollution and will work towards making Earth a greener planet.



You could do any **two** of the following

1. Look around your colony, on the roads and your city. Observe the pollution and the cleanliness in various forms. Now ponder over your observations and write your thoughts in one sentence using the following prompts -
 - a. I learnt...
 - b. I felt...
 - c. I wondered...
 - d. I tried...



2. Visit a park near your house and share 5 innovative ideas you would like to implement to upgrade its cleanliness, ambience and make it pollution free.
3. Create a slogan to raise awareness about pollution around your neighbourhood.
4. Imagine if you were to become the "Cleanliness Fairy" or "Cleanliness Angel" for a day, how would you use your magical powers to make our earth cleaner and greener (Prepare a few lines on this topic for oral / communication skill test in the class)

EVIS

Young minds are the sharpest. They learn fast and act faster.

'The Ignite Competition' held by the National Innovation Foundation in India is a platform that is giving young minds a place to experiment and innovate and come up with something extraordinary. You can innovate, too.

Here are some activities to fruitfully occupy you during summer vacations. Remember to start working at the earliest as these activities need at least three weeks to fructify.

I.

1. Find out any two interesting and impressive innovations by students across India that are based on prevention of air, water, noise or soil pollution.
2. Write 5 lines on each. Include any suggestions you have as well?

Note. You can search on the following websites for more information

- www.cippgh.org
- <http://www.thebetterindia.com/11596/ignite-innovations/>



II.

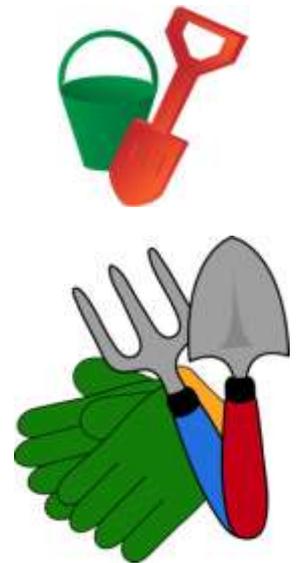
Perform '**The Big Dig Experiment**' to study how different materials break-up when buried in the earth.

Materials required:-shovel, backyard or pots full of soil to bury items, icecream sticks, coloured marker pens, different products and materials to test (can pick any one category below).

- a) Plates and cups (paper, plastic, wax coated paper cups)
- b) Paper (notebook paper, gift wrap, magazine, cardboard)
- c) Bags (paper bags, plastic bags, grocery bags, sandwich baggies)

Experiment procedure.

1. First decide, for example I am going to use different types of disposable cups.
2. Label one icecream stick for each item using permanent marker.
3. Dig a small trench large enough to fit all your items in one row.
4. Bury each item placing the matching labelled popsicle stick in the dirt to mark each item.
5. Leave the item buried for 3 weeks.
6. When time is up (you will want to keep track of time buried using a calendar), go out with your shovel to dig up your items one at a time.



Now answer the questions based on your observations:

1. Which material degraded the most?
2. Which material will break down best in a landfill?
3. Which material do you think we should buy?

4. Find out names of 3 Eco -friendly resorts in India which are working towards cleaner, greener environment and are encouraging the use of bio degradable products.

MATHS

Numbers show that human beings are more intelligent than any other species. But sadly our species also has a major role in polluting the environment and our earth. Let's make our environment safe and clean by using our intelligence to decode this interesting number game.



1. MATHS CODE CRACKER.



Use the codes given below to work out and make two slogans each on **CLEANLINESS** and **POLLUTION**. Then, with the basic operation of addition, add individual numbers and form a **NEW NUMBER**, then write its



NUMBER NAME, PLACE VALUE, FACE VALUE, EXPANDED FORM.

THE DE-CODER

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

An example is done for reference: -

"GO GREEN GET CLEAN"

So, we do,

*(G + O) (G + R + E + E + N) (G + E + T) (C + L + E + A + N)

*(7+ 15) (7+ 18+ 5 + 5 + 14) (7 + 5 + 20) (3 + 12 + 5 + 1 + 14)

* (22) (49) (32) (37)

* (2 +2) (4+ 9) (3+2) (3+7)

* (4) (13) (5) (10)

*(4) (1+3) (5) (1+0)

* 4 4 5 1 - which is the number. Then do as directed.

2. MATHS POLLUTION CHECK

It's time to get serious about reducing our greenhouse gas emissions. So, this summer let's do a pollution check survey as a part of our Math holiday homework.

- Conduct this survey individually.
- Collect information about 5 cars in your locality which have been certified as "POLLUTION CHECK UNDER CONTROL".
- Write the name of the owners of the cars, name of the car, fuel used, vehicle number.
- Then arrange the vehicle numbers in ascending order and write their number names.



3. Write the table of 12 in Roman numeral

HINDI

- १) हमारे प्रधानमंत्री श्री नरेंद्र मोदी जी द्वारा चलाए गए पाँच कार्यक्रमों की सूची बनाएँ ।
- २) आप ऐसा कौन सा कार्यक्रम चलाना चाहेंगे और कैसे चित्रों की सहायता से समझाएँ ।
- ३) कई जीव - जन्तु और पक्षी भी हमारे पर्यावरण को स्वच्छ रखने में हमारी मदद करते हैं। इनके चित्रों तथा थोड़ी सी जानकारी के साथ एक रंगीन A4 SIZE पोस्टर तैयार करें ।

