



Grade IV Summer Holiday Homework

“Tell me and I forget, teach me and I may remember, involve me and I learn”

Dear learners,

Vacation is the time to get creative and learn new skills. This year, your holiday homework is a fun mix of all aspects of learning. It has been designed to ensure that you explore and experience at the same time. The theme of holiday homework is Sustainable Development Goal 14: Life below water.



We rely on oceans not just for food but also for the air we breathe because sea life produces almost half the oxygen in our atmosphere. However humans have made these oceans dumping grounds. They are under threat. Fishes are getting caught in plastics and are drowning. Rising heat is killing the seas making it impossible for the life below water to survive. We all have a role to play and help the United Nations to restore and protect life below water by the year 2030. This is not an easy task and in order to achieve it, we need to start now. This holiday homework is a conscious step to understand our role and adopt practices to preserve our beautiful oceans and marine life. So let's dive in!

Looking forward to an effective and efficient completion.

Keep in mind to-

- Pray to almighty daily.
- Interact more and more with your family members.
- Follow a schedule during holidays.
- Manage your time wisely.
- Appreciate nature, go for walks and plant trees.
- Do your homework independently, only ask for assistance from your parents or guardians.

Activity 1 – Underwater Theatre

(a) Create your own underwater theatre!

For this activity, you need to make stick puppets of any two sea animals from the help box given below:



Sea turtle, Octopus, Dolphin, Sea horse,
Starfish, Jellyfish, Blue whale



Make colorful cutouts of chosen animals and decorate them with waste paper and waste materials. Then make their stick puppets.

(b) As you know, all these beautiful creatures live inside mighty seas and oceans. They all deserve to live in clean healthy waters. The plants and animals that live inside water are important for all life on Earth.

Planktons, which call our oceans their home, play a big part in keeping Earth's atmosphere healthy. They generate lot of oxygen which make up the air we breathe.

A large number of people rely on fish for their food. The oils contained in some fish keep our heart healthy. But overfishing is putting the life of many sea animals in danger. Garbage is polluting the oceans making them dangerous places for fish and marine animals to live. Climate change is making the sea hotter due to which coral reefs are dying. But progress is being made to restore life below water. Keeping the Earth's oceans and waterways clean is important so that all life can thrive and live peacefully. We all have a role to play.

Keeping all the above discussed points in mind, weave a story around these sea animals. Write your story on an A4 size sheet.

Bring your story and puppets to class after summer vacations for a puppet show.

Activity 2- From the whale's mouth

One day, Edy was sitting near the seashore. Suddenly, a whale came near him who looked very worried and scared. She talked with Edy and told him about marine pollution.

(a) Read the conversation between Edy and whale.

Whale- Hello dear friend! How are you?

Edy- I am fine. What about you?

Whale- I am fine too but I am somewhat worried.

Edy- Oh! Why are you worried?

Whale- Yesterday, one of my friend turtle was swimming when he spotted a white blob floating near the surface. Chasing after it, he swallowed it. But the floating blob was not a jelly. It was a plastic bag that made my friend sick.

Edy- I am so sorry to hear this. How is your friend now?

Whale- He is better now but the plastic waste entangles us. Many fish mistakenly consume plastics as food. Young kids like you must do something to help us.

(b) After reading the conversation, prepare a poster on ways to reduce marine pollution on an A4 size sheet.

(c) Make your own plastic journal on an A4 sheet and fill it for a week daily. Track how much single use plastic your family uses in a week.

Format-

Name-	
Day	Plastic items used
Day 1	
Day 2	
Day 3	
Day 4	
Day 5	
Day 6	
Day 7	

(d) After tracking how much plastic your family uses in a week, think about what you can do to use less plastic.

For example- You can eat ice-cream in a cone! Single use plastics such as ice-cream spoons account for more than 40% of plastic waste and this trash flows into the ocean. But solving this problem can be as easy as getting your sweet treat in a cone!

On an A4 size sheet, make a list of ten quick ways to reduce your plastic consumption and implement them your daily life.

Activity 3- The shark fin soup!

Some divers were diving off the coast of La Digue island ,they saw something which shook them. Read the comic strip page below to know more-



Later, these shark pieces were collected and taken to laboratory for investigation.

Researchers found out that it was the case of shark finning. It is the practice of cutting shark fins and discarding the rest of the shark at sea. The shark is often alive when tossed back into the ocean. Unable to swim, the shark slowly suffocates while sinking to the bottom.

Fact- Shark fins are used for making shark fin soup. A bowl of shark fin soup can be sold for as much as Rupees 70,000.



Prepare the continuation of this comic strip based on the information given above. Add new characters to give a good and positive end to the story. You can paste relevant pictures from the newspapers, magazines or internet. Present your work creatively on A4 size sheets.

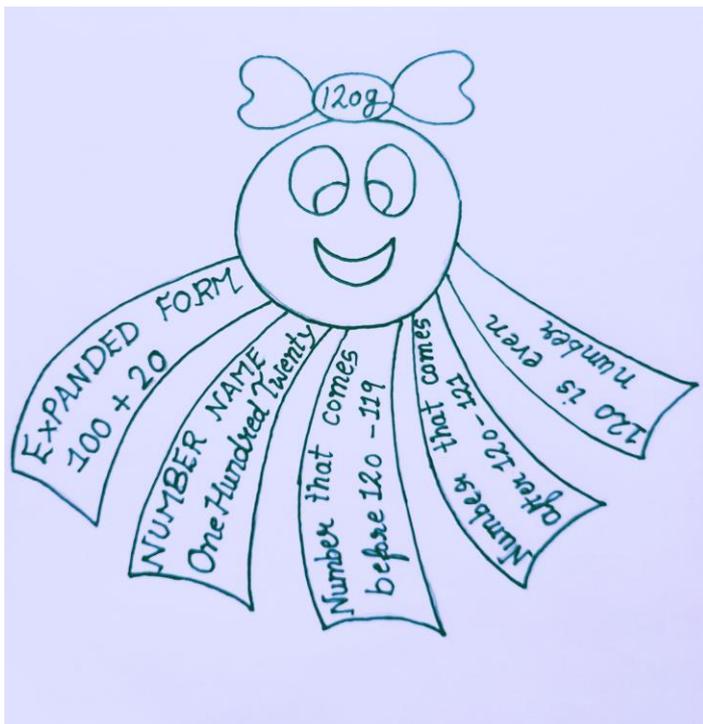
Activity 4- Marine Maths

(a) The life below water is an amazing place full of mysterious creatures with different shapes and various patterns.

Example- Starfish is star shaped. Many sea fishes and animals like turtle have beautiful patterns on their body called tessellations.

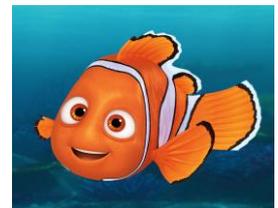
Paste pictures of any three such sea animals and write 2-3 lines about the related shape or tessellations. Present your work on A4 size sheets.

(b) Kate went to Andaman Islands for Scuba diving with her family. Near the coral reef, she met an octopus family. They swam next to her and she played with them. She saw that the octopuses were lighter and smaller than her. She guessed that the weight of grandfather octopus was 200 grams. The weight of father and mother octopuses were 180g and 160g respectively. The weight of baby octopuses were 100g and 120g respectively. **Now use these numbers to show some number facts. One is done for you.**



You can add more arms to octopus to add number facts.

Make the octopus family on a colourful A4 size sheet with sea background having coral reefs.



Activity 5- Finding Nemo

(a) Have you heard the word 'fishing'? Fishing is the activity of trying to catch fishes for food and money. But humans are putting too much pressure on the ocean by doing illegal activities. To experience what a fish goes through, when it is caught and trapped, you must see this beautiful animated movie- '**Finding Nemo**'. It is about a young fish Nemo who is trapped into a tank. Watch this exciting movie with your family in vacations.

(b) After watching the movie, write the character sketch of two main characters of the movie- **Nemo and Marlin**. Describe their characters by writing about their attributes. Present your work creatively on A4 size colourful sheets.

(c) Do you remember seeing all the beautiful and colorful plants that lived near Nemo? Well, that beautiful place is what we call a **coral reef**. It is like the underwater version of a flower garden. The film 'Finding Nemo' captures the beauty and color of the Great Barrier Reef to photograph the reef and reef animals. **Draw a picture of the Great Barrier reef using watercolors on an A4 size pastel sheet.**

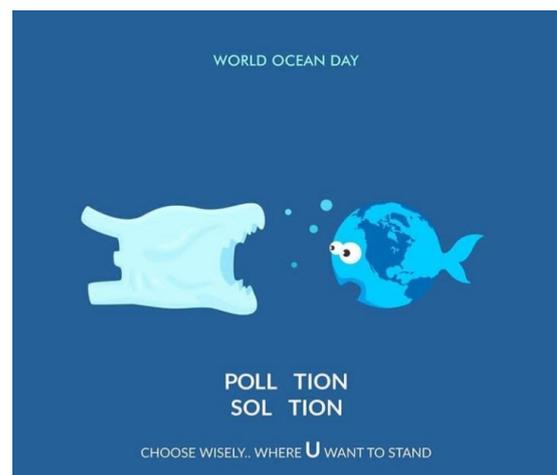
Activity 6- World Ocean Week

Do you know that on June 8th, we celebrate World Ocean Day and from June 5th – 14th, we will be celebrating ocean's week. These events are all about honoring our oceans and pledging to do our part to protect and restore them. By 2030, we must conserve our waters as a part of a larger plan to treat our earth in a more sustainable way. This is not an easy task and in order to achieve it, we need to start now. So this ocean week, let's dive into the world of ocean and **watch this documentary:**

Our Planet- Coastal seas on YouTube – Link -<https://youtu.be/r9PeYPHdpNo>

After watching the documentary, **make an advertisement to socially aware the people about the adverse effects of human activities on the oceans. Make the advertisement on an A4 size sheet with a catchy slogan to create a permanent effect on the viewers.**

Sample-



Let's Experiment!

The summer vacations will feel incomplete without some fun and exciting experiments. So let's do an experiment to create an ocean in a bottle. You will need –

- One litter transparent plastic bottle with a cap
- Baby oil or cooking oil
- Water
- Blue food colour
- Optional ingredients like glitter, sand, sea animal toys that can enter the bottle opening



How to do?

1. Fill the plastic bottle one third to one half full with water.
2. Add 2 drops of blue food colour to the water.
3. If you have any extra colourful items (glitter, marbles, buttons etc) add them to the coloured water.
4. Fill the remainder of the bottle with a cooking oil or a baby oil, leaving a couple of inches at the top. This is necessary to stimulate the rolling of waves.
5. Close the cap tightly and secure it by wrapping tape around it.
6. Now turn the bottle over and see your ocean coming to life.

हिंदी गृह कार्य

१) "अद्भुत संसार "

मान लीजिये कि आप किसी जलचर से मिलते हैं। इसके लिए आप किसी भी जलीय जंतु को ले सकते हैं। जिस जंतु को आपने चुना है उसके बारे में जानकारी एकत्रित करें। और उसका साक्षात्कार लेते हुए निम्नलिखित तरीके से ए4 साइज शीट पर लिखिए तथा उसका चित्र भी बनाइये।

सवाल

आप कहाँ रहते हैं ?

आप क्या खाते हैं ?

आप सांस कैसे लेते हैं ?

क्या आप किसी से डरते हैं ? कौन है वह ?

समुद्र में आपका मित्र कौन है ?

२) जलीय जीवों के बचाव हेतु जागरूकता फैलाने के लिए गत्ते, पेपर या अनुपयोगी वस्तुओं से कोई भी उपयोगी वस्तु बनायें जैसे : पेन होल्डर या कोस्टर या फोटो फ्रेम जो कि किसी जलीय जंतु की आकृति में हो उस पर एक नारा भी लिखें।

HAPPY
Holidays