

# WINTER HOLIDAY HOMEWORK

## GRADE- 4 (2019-20)

*“Education is the passport to the future,  
For tomorrow belongs to those who prepare for it today”*

*Dear Children,*

*We are sure that all of you would have made plans for a fun filled winter vacation. We wish that you enjoy your break with your family and friends. Freedom brings more responsibility, keeping this in mind, we have planned most of the activities for you to keep you engaged positively and your energies well directed.*

*The Holiday Homework has been especially designed to strengthen the concepts taken up in on-going themes and to ensure the maximum participation in the child's developmental plan that would help to build senses, enrich vocabulary, enhance creativity and thinking skills.*

*Here are some ways by which you can make your holidays fun and learning at the same time:*

- ✚ Go for a walk with your family, talk about things you see around.*
- ✚ Be an eco-friend: Plant at least one plant and take care of it during the holidays. Try to visit a nursery and observe the variety of plants you see there.*
- ✚ Care and Concern: Look after your grandparents, parent, younger brother and sisters. Help parents in small household chores like dusting of the house, cleaning wardrobes and watering the plants.*
- ✚ Make these a part of your personality.*
- ✚ Converse in English as much as possible.*
- ✚ Improve your handwriting. Practice handwriting daily (one page)*
- ✚ Read extensively to enhance your communication skills and list out the titles you read during holidays.*

*We Wish You a Wonderful Time Ahead.....*

# English



**NO WATER, NO LIFE**  
**NO BLUE, NO GREEN**



## CLEAN WATER AND SANITATION

The U.A.E government has laid down goals and plans to ensure availability of clean water and sanitation for all in U.A.E. Prepare a **creative fact file** or **booklet** including the following points:

- ❖ *Importance of clean water*
- ❖ *Demand for water in U.A.E*
- ❖ *Getting and preserving water supplies in U.A.E*
- ❖ *Key achievements of U.A.E towards 'Clean water and sanitation'*
- ❖ *What are the plans to reuse 100% of Abu Dhabi's waste water in four years?*

(SKILLS TO BE ASSESSED: WRITING, VOCABULARY, GRAMMAR)

### EVALUATION CRITERIA:

-  A clear topic sentence with supporting details relating to main idea: 3 marks
-  Proper punctuation, capitalization & spellings: 3 marks
-  Neatness: 2 marks
-  Presentation: 2 marks

# MATHS CORNER

## 6 CLEAN WATER AND SANITATION



### OBJECTIVES:

- List importance of water
- Highlight water usage in UAE
- Representation of water consumed in various sectors through graph
- Suggest ways to save water

### IMPLEMENTATION:

- Design a brochure on clean water and sanitation highlighting following Points:
  - UAE's contribution in Sustainable Management of Water and Sanitation
  - Facts related to water management
  - Water consumption by various sectors in UAE
  - Water consumption per day
  - Increase of water demand
  - Suggest solution to increased water consumption



### RESEARCH WEBSITES:

- [https://www.theasset.com/storage/Image/2019/Mar/1553572137SDGs\\_ImpactPhilosophy\\_Graphic\\_StanChartPB.PNG](https://www.theasset.com/storage/Image/2019/Mar/1553572137SDGs_ImpactPhilosophy_Graphic_StanChartPB.PNG)
- <https://www.gulftoday.ae/-/media/gulf-today/images/articles/business/2019/3/24/adfd.ashx?h=500&w=750&hash=2713F361C183EDE791C5603188AAB12F>
- [http://www.sustainable-desalination.net/wp-content/uploads/2013/05/EannaProject-Image\\_1.png](http://www.sustainable-desalination.net/wp-content/uploads/2013/05/EannaProject-Image_1.png)
- [https://mazegrass.com/pub/media/magefan\\_blog/2018/03/water-usage.jpg](https://mazegrass.com/pub/media/magefan_blog/2018/03/water-usage.jpg)
- [http://www.waterwise.gov.ae/en/media/get/20140120\\_chart-EN.jpg](http://www.waterwise.gov.ae/en/media/get/20140120_chart-EN.jpg)
- <https://i.pinimg.com/originals/d1/ca/10/d1ca10d2a436298c2e8950033282989b.png>

### EVALUATION:

- Content (Relation to topic / Data Collection) – 2 marks
- Originality / Effort / Creativity – 2 marks
- Timely Submission – 1 mark





The Project should be handwritten by the students with suitable title and related pictures. Project work is compulsory for all the students.

## **Topic: Water Resources In UAE**



Project work should cover following questions:

- ✚ How does UAE purify salty water?
- ✚ What is the role of innovation in the UAE Vision 2021?
- ✚ What are the methods using in UAE to purify water?
- ✚ What are the three methods of desalination?
- ✚ Is desalination the best solution for water shortage?



1. *Make a booklet about the important facts*  
OR
2. *Prepare a chart with all the information and pictures.*  
OR
3. *Prepare Brochures with all the facts and Information.*

### **RUBRICS**

*Contents accuracy-2*

*Originality-3*

*Presentation and creativity-3*

*Project Completion and punctuality-2*

*Submission: 12-01-*

# FACT FILE

1. There are two sources of water in UAE: Desalinated seawater and ground water. While groundwater is used for agriculture in Al Ain and Liwa, drinking water is provided entirely from desalinated seawater

across the Emirate. [C:\Users\humera\Downloads\UAE NATIONAL INNOVATION STRATEGY\https://www.moei.gov.ae > assets >](https://www.moei.gov.ae/assets)

2. United Arab Emirates' main water resources are: Surface water "is water from the river, lake or freshwater wetland, which can be treated using different methods, such as Ultrafiltration Systems, Media Water Filters, Brackish Water RO.

3. At least three principle methods of desalination exist: thermal, electrical, and pressure. The oldest method, thermal distillation, has been around for thousands of years. In thermal distillation, the water is boiled and then the steam is collected, leaving the salt behind.

4. Water obtained from desalination costs twice the amount of water from freshwater sources. ... The only way desalination can be a good option to solving the water crisis is if renewable energy is used, costs are lowered, and environmental protections are put in place for marine life too.

5. Believing that innovation is the future of human investment, the UAE Leadership emphasizes its importance across all sectors through the UAE Vision 2021: "Innovation, research, science and technology will form the pillars of a knowledge-based, highly productive and competitive economy, driven by entrepreneurs."



## WEB LINKS:

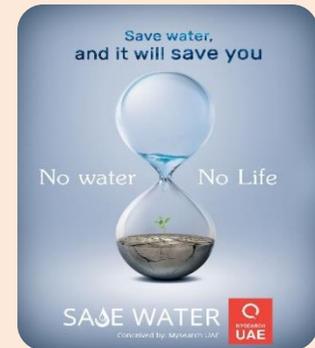
[https://www.moei.gov.ae > assets](https://www.moei.gov.ae/assets)

[https://www.foodandwaterwatch.org > news > ocean-desalination-no-solution large.stanford.edu > course > praise2](https://www.foodandwaterwatch.org/news/ocean-desalination-no-solution-large.stanford.edu/course/praise2)



We all know the importance of clean water and sanitation for people all over the world. Since UAE is located in the desert, it has a very small amount of underground water, due to that, the country has to rely on other water resources like desalinated seawater.

Given below is the topic. Research and write a report about it in the holidays.



## UAE Research Programme for Rain Enhancement Science



*Skills to be assessed: Research, observation, recording*

### *EVALUATION CRITERIA:*

1. Data Collection - 3 marks
2. Recording - 3 marks
3. Creativity /Effort - 3 marks
4. Timely submission - 1 mark





*So what you are waiting for?*

**LET'S START**

