



## DARUL HUDA ISLAMIC SCHOOL AL-AIN

### Holiday Assignment (2018-19)

Grade:8

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#### PHYSICS

##### Poster Making:

1. Make a poster to create awareness about noise pollution (your poster should show the harmful effects and the ways to reduce such pollution)

My identity: Write the initiative taken by UAE government to reduce noise pollution. (In A4 sheet)

##### Assignment:

2. What is the full form of SONAR? Write short note on SONAR  
Find out how bats use this technique to detect and catch insects.

#### CHEMISTRY

1. Make a project file on metals and non-metals according to the following:
  - Metals and non-metals found in India
  - Their location. ( City, District, State)
  - Uses
  - Mark locations on map of India.
2. Prepare a report on energy conservation and energy efficiency measures taken by the UAE government

#### BIOLOGY

1. **Create a microbial museum.** Collect information and pictures on different types of microbes, their structure and role in daily life. Assemble them in a booklet and submit it. (Text book lesson -2)

2. Science has made advancements in many fields. One of which is cloning. Have you heard of the famous sheep Dolly? Dolly was the first mammal to be successfully cloned from an adult cell. She is identical to her mother. Well, now you must be wondering that we all look like our parents! But Dolly is a Xerox copy of her mother; and doesn't have a father! All this has been possible with the breakthrough in the cloning process. **Research on the topic 'cloning' and prepare a short report on it.**

### Social Studies

1. Conduct a research on the topic 'Agricultural land in the UAE'. Include the following things in your research  
(Factors influencing agriculture in the UAE, how have agriculture methods changed over the years, how modern methods of agriculture have helped to increase in production, how technological innovations have meant an improvement in agricultural production.)
2. Compare the agriculture system of the UAE with India.

### English

- Read a novel of your choice and write its review with reference to plot, theme and characters in about 300 – 350 words.
- Choose any two climate zones and research about one tree from each climate zones ,Present a study on:
  - The way the trees adapt their environment.
  - The effect of the trees on the environment.
  - Their usefulness to other creatures.
  - The historical /mythological aspects of the trees (if any).

### **ISLAMIC STUDIES**

Prepare a booklet on Islamic Da'wa Medias (Radio, Channels, News papers, magazines and websites )available in UAE

## Holiday Assignment

### Mathematics – Grade VIII

1. The Table shows the portion of some common materials that are recycled

| Material      | Recycled       |
|---------------|----------------|
| Paper         | $\frac{5}{11}$ |
| Aluminum cans | $\frac{5}{8}$  |
| Glass         | $\frac{2}{5}$  |
| Scrap         | $\frac{3}{4}$  |

- a) Is the rational number expressing the amount of paper recycled more than  $\frac{1}{2}$  or less than  $\frac{1}{2}$ ?
  - b) Which items have a recycled amount less than  $\frac{1}{2}$ ?
  - c) Is the quantity of aluminum cans recycled more ( or less) than half of the quantity of aluminum cans?
  - d) Arrange the rate of recycling the materials from the greatest to the smallest.
2. Verify  $a \times (b + c) = (a \times b) + (a \times c)$  if
- i)  $a = \frac{3}{7}$ ,  $b = \frac{5}{6}$ ,  $c = \frac{5}{3}$        $a \times b = \frac{5}{6}$ ,  $a \times c = \frac{-8}{3}$ ,  $a \times (b + c) = \frac{-13}{12}$
3. The distance between the sun and the earth is  $1.496 \times 10^{11}$  m and the distance between the earth and moon is  $3.84 \times 10^8$  m. What is the distance between the two, during the solar eclipse when moon comes in between the earth and the sun?
- Why is it advised not to look at the sun directly during the solar eclipse?
4. Write a Pythagorean triplet whose one number is
- a) 14      b) 16
5. Find the square root of the following numbers by prime factorization method
- a) 38416      b) 47089