



THM Sadaqa Group, Inc.
Your Standard Salafi Curriculum Guide to Online Salafi Homeschool
Science

Grade 6

Teacher: UmmYasin & Ukhti Waqia

Online Access: HC

Class Time: 1:00pm – 1:30pm

Class Days: Mon. & Wedn.

Course: Science – SCI200

Term: Fall Discussion Group

Current Affairs/Science Lesson 4

[Print this activity](#)

Author: LINDA MOSBACKER/Edited by THM STAFF

Al-Jathiyah - 45:5

And in the alternation of night and day, and the provision (rain) that Allâh sends down from the sky, and revives therewith the earth after its death, and in the turning about of the **winds** (i.e. sometimes towards the east or north, and sometimes towards the south or west etc., sometimes bringing glad tidings of rain etc., and sometimes bringing the torment), are signs for a people who understand.

Al-Baqarah - 2:19

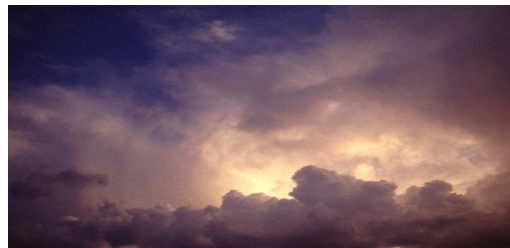
Or like a rain**storm** from the sky, wherein is darkness, thunder, and lightning. They thrust their fingers in their ears to keep out the stunning thunderclap for fear of death. But Allâh ever encompasses the disbelievers (i.e. Allâh will gather them all together).

Al-Mursalat - 77:2

And by the **winds** that blow violently,

Al-Isra - 17:68

Do you then feel secure that He will not cause a side of the land to swallow you up, or that He will not send against you a violent sand-**storm**? Then, you shall find no Wakîl (guardian one to guard you from the torment). (Al-Isra 17:68)



Hurricanes

Hurricanes, with their high winds, high seas, and flooding can be one of nature's most destructive elements. They are powered by warm oceans and moved by trade winds. The high winds around their core generate violent seas. When hurricanes move ashore, they "sweep the ocean inward", create tornadoes, and produce torrential rain downpours, floods, and destructive wind velocities.

Come and discover more about hurricanes from these informative sites. You can print this page and write the answers right on the page or use a separate piece of paper inshaAllah.

Severe Weather - Hurricanes

1. What is a hurricane?

Severe Weather - Hurricanes

1. Explain how hurricanes are formed.

Storm Science: Hurricane (research this one)

1. Explain how radar images can show the amount of rain in a hurricane.

Anatomy of a Hurricane - University of Illinois

1. Define the eye of a hurricane, the eye wall, and spiral rainbands.
2. Which of these sections of a hurricane does the most damage?

Storm Science: Hurricane (research this one)

1. The eye of the hurricane is very visible in this image. Can you tell which state is to the right of the image?

The Weather Channel

1. Explain the difference between a hurricane watch and a hurricane warning.

Severe Weather - Hurricanes

1. Of all the damage done in the United States by severe weather, what percentage is done by hurricanes?
 2. Which weather-related phenomenon causes the most damage each year?
 3. Which of the four weather hazards on the pie chart are likely to occur in Utah?
-

Destruction Caused by Hurricanes

Once a hurricane develops, the Saffir-Simpson Scale is used to classify a hurricane's damage potential. There are five possible categories, from 1-5.

1. List the wind speed and the observed damage from a Category 1 hurricane.
 2. List the wind speed and the observed damage from a Category 3 hurricane.
 3. List the wind speed and the observed damage from a Category 5 hurricane.
 4. According to this site, which element of a hurricane causes the most hurricane-related deaths--the floods that often accompany hurricanes, the storm surges, or the winds?
-

Severe Weather - Hurricanes

1. What are the elements in a hurricane that cause damage?
 2. About how many hurricanes form off the east coast of the United States each year?
 3. What four elements of a hurricane does the Saffir-Simpson Scale measure?
 4. About how often to Category 5 hurricanes occur?
 5. Where and when did Hurricane Gilbert occur? What was its category?
 6. Where and when did Hurricane Hugo occur? What was its category?
 7. Where and when did Hurricane Andrew occur? What was its category?
-

National Weather Service

1. Each year on average, how many tropical storms develop over the Atlantic Ocean, Caribbean Sea, or Gulf of Mexico? How many of these become hurricanes?
 2. What state was impacted by Hurricane Alicia, in what year, and what was its category?
 3. What time of year do hurricanes in the east Pacific begin to form?
 4. What time of year do hurricanes in the Atlantic, Caribbean, and Gulf of Mexico begin to form?
 5. When is the peak hurricane threat for the United States?
 6. When can hurricanes occur in western Pacific?
-

Hurricanes - University of Illinois

1. Global wind patterns affect the path of hurricanes. The surface winds of each hemisphere are divided into three wind belts. What are they?
 2. In terms of wind belts, why are the Gulf of Mexico and East Coast of the United States at risk to develop one or more hurricanes each year?
 3. Why do hurricanes dissipate rapidly once they move over cold water or large landmasses?
-

U.S. Geological Survey

1. What is storm surge and what kinds of damage does it do?
-

National Hurricane Center

Hurricanes are given human names! The names of hurricanes always used to be female names. Now they alternate between male and female names.

1. What will be the name of the 1st hurricane in the year 2000?
 2. What will be the name of the 10th hurricane in the year 2001?
 3. What will be name of the 20th hurricane in the year 2002?
-

Hurricane Timeline (research this one)

Check out these dates in hurricane history! Click on the dates on the timeline and describe the hurricanes and their damage from the following dates:

- 1559
 - 1752
 - 1893
 - 1933
 - 1992
-

FAQ : HURRICANES, TYPHOONS, AND TROPICAL CYCLONES

1. What is the name of the most intense hurricane in U.S. history and where and when did it occur? Find the same information for the most deadly and the most damaging hurricanes.
-

Weather (samples to gather your information)

1. Write a half-page summary of how tornadoes and hurricanes are different.

Hurricane Quiz (skip questions 1 & 2, write your answers on a separate piece of paper)

1. Take this hurricane quiz and record your score.

Disaster Help

1. What is the name of the organization that helps people all over the world who are victims of natural disasters?



Narrated Nafi':

Once on a very cold and **stormy** night, Ibn 'Umar pronounced the Adhan for the prayer and then said, "Pray in your homes." He (Ibn 'Umar) added. "On very cold and rainy nights Allah's Apostle used to order the Mu'adhhdhin to say, 'Pray in your homes.'" Sahih Bukhari, & Sahih Muslim



Narrated 'Aisha:

(The wife of the Prophet), I never saw Allah's Apostle laughing loudly enough to enable me to see his uvula, but he used to smile only. And whenever he saw clouds or **winds**, signs of deep concern would appear on his face. I said, "O Allah's Apostle! When people see clouds they usually feel happy, hoping that it would rain, while I see that when you see clouds, one could notice signs of dissatisfaction on your face." He said, "O 'Aisha! What is the guarantee for me that there will be no punishment in it, since some people were punished with a wind? Verily, some people saw (received) the punishment, but (while seeing the cloud) they said, 'This cloud will give us rain.'" Sahih Bukhari, Sahih Muslim (with a different wording)

Hurricane Activity

Research:

Looking under the current news for science, please locate any additional articles you can find in reference to this subject. Once you find the article make sure you site the source that was used (where the article came from; what website, or book, magazine etc...)

Writing Exercise:

Using your finest handwriting possible inshaAllah, please summarize the articles that you found into a one-page document, make sure you include lots, and lots of facts according the scientist who did the research. (Some tips to follow: if you are going to use a quote from someone you will need to make reference to the person who made the statement.) For an example you can look at the hadith given above, inshaAllah.



Tafseer of the Ayaat:

Choose one or more of the ayaat that have been presented to you in this lesson. And read the Tafseer from Ibn Katheer. To assist you in this, if you do not possess the books at home, go to www.thenoblequran.com or click the hadith icon next to the hadith inshaAllah. From this page you can type in the verse, or words you are looking for inshaAllah, and it provides speedy results too! Once you have read the Tafseer, go back and look at your writing exercise, making a numbered list (1, 2, 3) explain how the article is in relationship to the ayaat. (Ask your parents for assistance)



Hadith:

Where should the Muslims pray when there are storms? What is your proof?
What are the differences reported in the hadith reported in Sahih Muslim for the second hadith?

Additional Reading:

- [How are Hurricanes formed?](#)