



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

Science

Grade 6

Teacher: Saddiqua Muhammad Black

Online Access: Paltalk room/thmsadaqagroup Password: thm100

Class Time: 1:00pm – 1:30pm

Class Days: Mon. & Wedn.

Course: Science – SCI200

Term: Summer Discussion Group

Current Affairs/Science Lesson 1

Astronomers: Earth's 'bigger cousin' detected

By Michael Schirber

Monday, June 13, 2005 Posted: 3:17 PM EDT (1917 GMT)



An artist's conception of the newly discovered Earth-like planet.

Click the link for detailed presentation

http://space.com/scienceastronomy/050613_super_earth.html



And Allah says in Surah Fussilat: 12

“Then He completed and finished their creation (as) seven heavens in two Days and He made in each heaven its affair. And we adorned the nearest (lowest) heaven with lamps (stars) to be an adornment as well as to guard. Such is the Decree of the All-Mighty, the All-Knower.”

Beware of the warning of Allah In Surah Ibrahim: 48

“On the Day when the earth will be changed to another earth and so will be the heavens, and they (all creatures) will appear before Allah, the One the Irresistible.”

And Allah says: Ar-Rum - 30:27

And He it is Who originates the creation, then will repeat it (after it has been perished), and this is easier for Him. His is the highest description (i.e. none has the right to be worshipped but He, and there is nothing comparable unto Him) in the heavens and in the [earth](#). And He is the All Mighty, the All Wise.

Read what the astronomers have discovered!

(SPACE.com) -- Astronomers announced Monday the discovery of the smallest planet so far found outside of our solar system.

About seven-and-a-half times as massive as Earth, and about twice as wide, this new extra solar planet may be the first rocky world ever found orbiting a star similar to our own.

"This is the smallest extra solar planet yet detected and the first of a new class of rocky terrestrial planets," said team member Paul Butler of the Carnegie Institution of Washington. "It's like Earth's bigger cousin."

Currently around 150 extra solar planets are known, and the number continues to grow. But most of these far-off worlds are large gas giants like Jupiter. Only recently have astronomers started detecting smaller massed objects

"We keep pushing the limits of what we can detect, and we're getting closer and closer to finding Earths," said team member Steven Vogt from the University of California, Santa Cruz.

The discovery of Earth's distant cousin was announced Monday at a press conference at the National Science Foundation in Arlington, Virginia.

The new planet orbits Gliese 876, an M dwarf star 15 light years away in the constellation Aquarius. The "super-Earth" is not alone: there are two other planets -- both Jupiter-sized -- in the same system. This third world was detected by a tiny extra wobble that it caused in the central star.

From this wobble, the researchers measured a minimum mass for the new planet of 5.9 Earth masses. The planet orbits makes a full orbit in a speedy 1.94 days, implying a distance to the central star of 2 million miles -- or about 2 percent of the distance between the Earth and the Sun.

Orbiting so close to its star, scientists speculate that the planet's temperature is a toasty 400 to 750 degrees Fahrenheit (200 to 400 degrees Celsius). This is likely too hot for the planet to retain much gas, like Jupiter does. Therefore, the planet must be mostly solid.

"The planet's mass could easily hold onto an atmosphere," said Gregory Laughlin from UC Santa Cruz. "It would still be considered a rocky planet, probably with an iron core and a silicon mantle. It could even have a dense steamy water layer."

A paper detailing these results has been submitted to The Astrophysical Journal.

Hadith: (About the Stars). From Surah Al-Anam: 97

Abu Qatadah mentioned Allah's statement: "And indeed we have adorned the nearest heaven with lamps," (67:5) and said, "The creation of these stars is for three purposes,

- ❑ As decoration of the nearest heaven
- ❑ As missiles to hit the devils
- ❑ And as signs to guide travelers

So if, anybody tries to find a differing interpretation, he is mistaken and waste just efforts, and troubles himself with what is beyond his limited knowledge."

Sahih Bukhari, Chapter 3 "The beginning of Creation"

Earth's 'bigger cousin 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. From this page you can type in the verse 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 if you need to)

Hadith:

What are the 3 mentioned purposes for the stars?

Additional Reading:

- [Astronomers Find Two Unusual Planetary Systems](#)
- [Strange Miniature 'Solar Systems' Revealed](#)

Don't forget to **CLICK** the picture above....it will take you to a whole new look of science materials.....Have Fun exploring!