Xavier Online

From artists, creators, achievers to teachers, staffs and dignitaries, XOL brings together the members of the Xaverian Family. We conduct various competions and publish creative content with an aesthetic thing. Our aim is to give our readers an enjoyable read and at the same time provide value and raise awareness regarding various subjects.

Xavier's Daily

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Challenge yourself!

What is full of holes but still holds water?

Answer - A
sponge

Spectrum's Corner

Thought of the Day

If you look at what you have in life, you'll have more. If you look at what you don't have in life, you will never get enough.

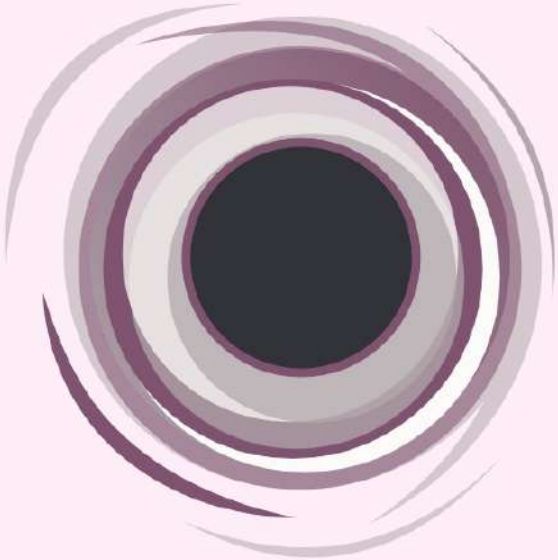
Word of the Day

Atrocious
Meaning –
atrocious means very cruel, evil, brutal, terrible, offensive, appalling.

Usage -
Killing of innocent children is an atrocity.

DID YOU KNOW?

The Closest Black Hole is Probably Not 1,600 Light-Years Away.



BLACK HOLE!

By Atiqua

A black hole is a place in space where gravity pulls so much that even light can not get out. The gravity is so strong because matter has been squeezed into a tiny space. This can happen when a star is dying. Because no light can get out, people can't see black holes. They are invisible. Space telescopes with special tools can help find black holes. The special tools can see how stars that are very close to black holes act differently than other stars.

How Do Black Holes Form?
Scientists think the smallest black holes formed when the universe began.
Stellar black holes are made when the center of a very big star falls in upon itself, or collapses.
When this happens, it causes a supernova. A supernova is an exploding star that blasts part of the star into space. Scientists think supermassive black holes were made at the same time as the galaxy they are in.

If Black Holes Are "Black," How Do Scientists Know They Are There?
A black hole can not be seen because strong gravity pulls all of the light into the middle of the black hole. But scientists can see how the strong gravity affects the stars and gas around the
black hole. Scientists can study stars to find out if they are flying around, or orbiting, a black hole.
When a black hole and a star are close together, high-energy light is made. This kind of light can not be seen with human eyes. Scientists use satellites and telescopes in space to see the high-energy light.

Could a Black Hole Destroy Earth?
Black holes do not go around in space eating stars, moons and planets. Earth will not fall into a black hole because no black hole is close enough to the solar system for Earth to do that.
Even if a black hole the same mass as the sun were to take the place of the sun, Earth still would not fall in. The black hole would have the same gravity as the sun. Earth and the other planets would orbit the black hole as they orbit the sun now. The sun will never turn into a black hole. The sun is not a big enough star to make a black hole.

How Is NASA Studying Black Holes?
NASA is using satellites and telescopes that are traveling in space to learn more about black holes. These spacecraft help scientists answer questions about the universe.