

SCIENCE CENTRE NEWS LETTER

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SCIENCE CENTRE

Volume 2, Issue 3

WHAT'S NEW IN SCIENCE

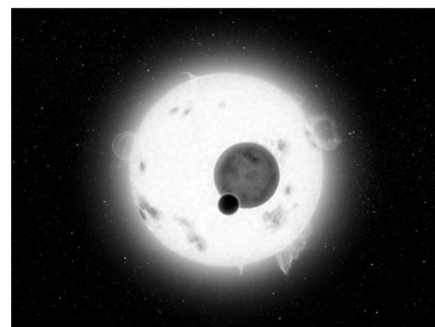
NASA announces 1284 new planets discovered by Kepler Space telescope.

NASA has announced its kepler space telescope has discovered 1284 new Planets, nine of which could theoretically be habitable of the 1284 new Planets, around 550 are believed to be rocky, like Earth. Nine of these also sit in their star's 'habitable zone', where the surface temperature allows liquid water to exist.

" This gives us hope that somewhere out there, around a star much like ours, we can eventually discover another Earth", said Ellen Stofan, chief Scientist at NASA head quarters, Washington.



Launched in 2009, Kepler has discovered 2325 verified



planets of almost 5000 total candidates. The space Craft spent four years studying 1,50,000 stars on its first mission, and then began its second mission, called K2. In April, the telescope descended into emergency mode, but Scientist managed to Stabilize the Space Craft. The news was Published on 10 May, 2016 on NASA's site.

SCIENTIST OF THE MONTH

Bidhan Chandra Roy

Bidhan Chandra Roy was born on July 1, 1882 at Patna in Bihar. he did his B.A in Mathematics. Immediately after gradution, B.c. Roy Joined the Provincial Health Service. He sailed For England With only Rs.1200 in February 1909 intending to enroll himself at st. Bartholomew's Hospital to further his Education. The Dean, reluctant to accept a student from Asia, rejected Bidhan's application. Dr. Roy did not lose heart. Again and Again he Submitted his application until finally the Dean, after 30 admission requests, accepted Bidhan to the Collage and returned home in 1911.on his return he taught at the Calcutta Medical College, then the Campbell Medical School and finally at the Carmichael Medical College.



He Made Contributions to the organisation of medical education. he established the Jadavpur T.B Hospital,

Chittaranjan seva Sadan, Kamala Nehru Hospital, Victoria Institution and chittaranjan cancer Hospital. The Chittaranjan Seva Sadan for women and children was opened in 1926. He served as the Alderman of the Corporation from 1930-31 and Mayor in 1933. Dr. Roy is often Considered the Great architect of West Bengal, who Founded five eminent cities, Durgapur, Kalyani, Bidhannagar, Ashoknagar, and Habra.

In India, the National Doctor's Day is Celebrated on the date of his birth (and death) 1 July every year. The national honoured him with the Bharat Ratna on 4 February, 1961. the B.C Roy National Award was Instituted in 1976. the B.C. Roy National Award was instituted in 1976 for work in the area of medicine, Politics, Science, Philosophy, literature and arts. he died on 1 July, 1962 (aged-80) in Kolkata.



Timings

Tuesday to Friday
9.30 am to 4.30 pm

Saturday - Sunday
& Public Holidays
9.30 am to 6.30 pm

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SCIENCE FACTS JULY 2016

1 July	Birthday of famous Physician & Bharat Ratna Awarded Bidhan Chandra Roy which is celebrated as 'Doctor's Day' in India.
2 July 1938	Chandrakumar Naranbhai Patel (inventor of the Carbon Dioxide Laser) was born on this day.
4 July 2005	Successful collision of NASA's satellite "Deep Impact" with comet into the space was held at the distance 13.04 million km from the Earth.
4 July 2015 (First Saturday of July)	International Cooperative Day (by U.N.)
5 July 1996	First Clon Mammal (Genetically identical individuals) 'Dolly' (a sheep) was born on this day.
6 July 1906	Daulat Singh Kothari's (well known Indian physicist) Birthday.
6 July 1885	Vaccine for Rabies first time used on human on this day.
11 July	World Population Day. (by U.N.)
16 July 1945	The first detonation with code name "Trinity" conducted by United States at "Los Alamesh" was done on this day. This date is known as the beginning of Atomic Age.
18 July	Nelson Mandela International Day for freedom, justice and democracy. (by U.N.)
18 July 1980	Launching of Indian satellite "Rohini RS-1" into the Space.
19 July 1814	Samuel Colt (inventor of Revolver) was born on this day.
24 July 1969	Successful landing of "Appolo-11" in the pacific Ocean.
25 July 1978	"Louise Joy Brown" the world's first successful Test Tube Baby was born in Great Britain.
31 July 2015	14th Annual System Administrator Appreciation Day. (Also known as Sysadmin Day).
U.N. United Nations	

Ans : 1)-A 2)-B 3)- A 4)-C 5)-C 6)- A.

KNOW THE EXHIBITS AT FUN SCIENCE GALLERY

Breathing Square :

Press the switch and observe that the yellow square appears to grow and shrink behind the four red squares. the change in size is simply due to the change in perceived area of the yellow rotating squares seen between the set of red squares. This illusion is due to our visual inability to resolve ambiguous information about the rotating square's true direction of movement when its contours are not fully visible.



SCIENTIFIC QUESTION

What Is Element ? (Part-1)

An Element is a substance or chemical whose atoms are all exactly the same, with the same number of electrons, Protons and Neutrons. there are about 112 different elements. Each element has certain Physical Properties, Such as its color, Shininess and Hardness. Other Physical Properties include the temperature at which it melts or boils, density, and how well it carries or conducts electricity. an element also has chemical Properties. These include the way that it joins or combines with atoms of other elements in chemical reactions, and how easily it undergoes such reactions.

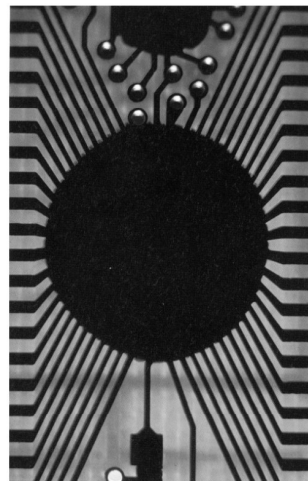


a dark, slightly shiny, brown-gray substance. It has the curious property of carrying or conducting electricity - but not particularly well. So, it is called a Semi conductor. It can be made as crystals which are Cut or Sliced into

thin layers called silicon chips. which is used in hundreds of kinds of machines and devices, from computers and music systems, to Planes and Satellites.



A useful Element :
Silicon is an element. Pure Silicon is



A Saving Element :

Aluminium is an element that is a shiny, silvery metal. It is found naturally in the Earth's rocks. extracting and purifying it cost huge amounts of time, energy and money. using

aluminium several times, by recycling cans, saves more than nine-tenths of this energy and money.

A Valuable Element :

Silver is a Beautiful, Lustrous (semi-shiny) element. It is easy to shape and Polish, and resists corrosion. these features have made it valuable. since ancient times, for Jewelry, decorative objects such as silver Plates, and coins.

SCIENCE QUIZ

1) Acid Rain may have a PH of ?

- a) 6 b) 7 c) 8 d) 9

2) which one of these is a non- metal ?

- a) Scandium b) Sulfer c) Zinc d) Potassium

3) what is NOT a greenhouse gas ?

- a) Nitrogen b) Methan c) Carbon dioxide d) Ozone

4) what astronomers use to map the shape of the Milky Way ?

- a) visible light b) Infrared rays c) Radio waves d) Gamma Rays

5) cholesterol is an example of what type of lipid ?

- a) fat b)oil c)sterol d) phospholipid

6) In Mathematics, India's most precious gift to world is ?

- a) Zero b) Value of pi c) Decimal system d) Pythagorus Theoram

POSTAL STAMP EXHIBITION

A Postal Stamp Exhibition was organized at first floor of Art Gallery, Science Center Surat from 08th to 19th June, 2016. This exhibition comprised of postal stamps on various themes and subjects, collection by Shri Sureshbhai Chorawala and from collection of Sardar Vallbhbhai Patel Museum.



SCIENCE CENTRE

Science Centre forms the main part of the entire complex; it displays thematic galleries in the field of Science and Technology. The ground floor of Science Centre showcases 3D Theatre and Souvenir Shop. The first floor of Science Centre showcases Fun Science Exhibits and Second floor of Science Centre showcases Diamond Gallery where as Entering into space, Textile Gallery, Power of Play Gallery, Cosmos Gallery and Polar Science Gallery are under development.

3d Show	Tuesday to Friday (Time)	Saturday, Sunday & Holidays (Time)
English	09:15, 11:20, 12:00, 02:40, 04:00	09:15, 11:20, 12:00, 02:40, 04:00
Hindi	10:00, 10:40, 12:40, 01:20, 02:00, 03:20	10:00, 10:40, 12:40, 01:20, 02:00, 03:20, 04:40, 05:20, 06:00
Science Centre + Planetarium + Museum + Diamond Gallery		Planetarium
Above 18 Years	Rs. 100	Tuesday to Friday
3 Years to 18 Years	Rs. 65	Saturday, Sunday & Public Holidays
Science Centre + Museum + Diamond Gallery		09:30 to 10:20 English
Above 18 Years	Rs. 60	10:30 to 11:20 Gujarati
3 Years to 18 Years	Rs. 40	11:30 to 12:20 Gujarati
Science Centre + Planetarium + Museum + Diamond Gallery + 3D Show		12:30 to 01:20 English
Above 18 Years	Rs. 120	01:30 to 02:20 Hindi
3 Years to 18 Years	Rs. 80	02:30 to 03:20 hindi
Planetarium		03:30 to 04:20 Gujarati
Above 18 Years	Rs. 50	04:30 to 05:20 English
3 Years to 18 Years	Rs. 40	05:30 to 06:20 Gujarati
3D Show		
Above 18 Years	Rs. 60	
3 Years to 18 Years	Rs. 40	