

WESTGATE SCIENCE CLUB

issue 14

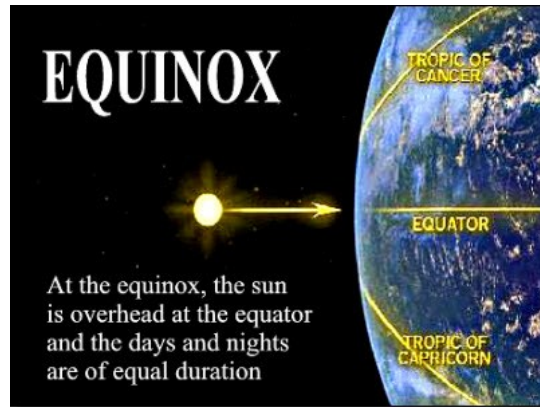
MARCH 2012



making science cool

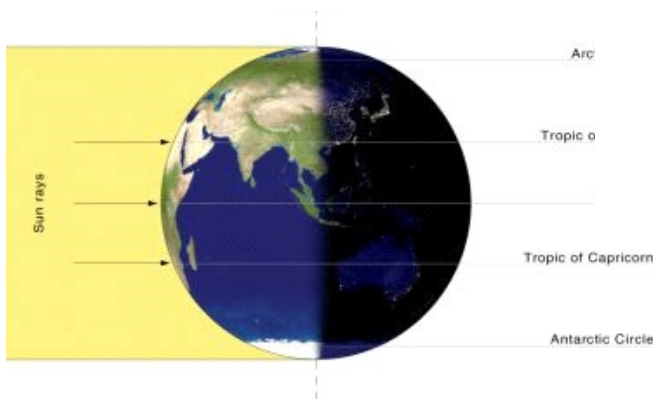
The March equinox will occur at 05:14 (or 5:14am) Coordinated Universal Time (UTC=GMT) on March 20, 2012.

This marks the beginning of spring in the northern hemisphere and autumn in the southern hemisphere from an astronomical viewpoint.



Twice a year, around March 20 or 21 and September 22 or 23, the sun shines directly on the equator and the length of day and night are nearly equal in all parts of the world.

These two days are known as the March equinox and the September equinox.



WESTGATE SCIENCE PUZZLE

R	B	T	C	E	E	Y	H	G	B	A	T	D
E	S	M	R	E	G	T	A	U	L	U	O	B
T	I	C	S	O	R	G	A	N	N	O	G	O
E	S	P	L	A	M	I	N	A	F	Y	R	S
X	C	O	E	U	R	P	G	N	O	G	A	D
E	I	N	C	M	B	L	O	O	D	R	S	L
B	T	D	E	W	N	A	M	U	H	E	L	O
C	E	S	L	I	A	N	T	T	I	N	I	U
I	N	G	L	I	C	T	I	C	C	E	F	Y
R	E	T	A	G	T	S	E	W	E	W	E	U
A	G	E	A	N	S	P	R	R	O	O	M	T
T	V	I	R	U	S	E	T	R	E	E	F	E
A	G	N	E	F	R	O	G	G	E	G	R	P

WESTGATE SCIENCE CLUB POND FROG
 ANIMAL EARTH LIFE ORGAN ENERGY
 GROW SPECIES WATER BLOOD CELL
 EXETER TISSUE PLANTS FUNGI VIRUS
 BIOLOGY TREE FOOD BUGS GENETICS
 GERMS HUMAN

Friday 10 Feb

What happens when a touch of washing up liquid is dropped onto a dish full of water & pepper



A very crude type of a LIE MACHINE was set up with a multimeter, a copper handle and an aluminium handle. Different measurements were taken example 624 mv when these were grasped.



Some children wanted to 'test' the machine by telling a lie but it wouldn't have been genuine!



SPEED - slow, faster, very fast. extremely fast



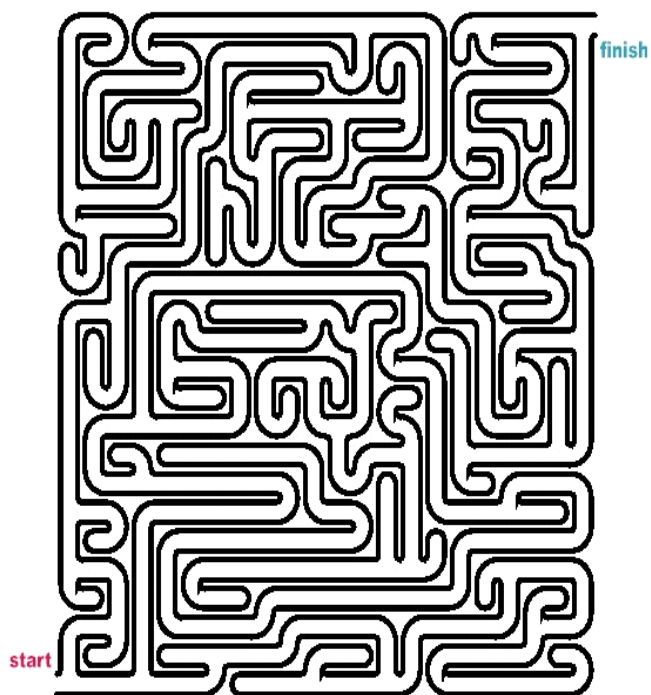
- 1 ELEPHANT
- 2 CAR ON MOTORWAY
- 3 FASTEST PLANE
- 4 SPEED OF LIGHT
- 5 PASSENGER JET PLANE
- 6 SPACE STATION CIRCLING THE EARTH
- 7 DOG
- 8 CHEETAH
- 9 HIGH SPEED TRAIN
- 10 AVERAGE CYCLIST
- 11 PERSON WALKING AVERAGE
- 12 FASTEST RACE RUNNER
- 13 TGV TRAIN
- 14 SPACECRAFT TRAVELLING THROUGH SPACE
- 15 FASTEST STEAM TRAIN
- 16 SPEED OF SOUND
- 17 SNAIL

- B 30 CM IN 2 MINUTES
- C 15 MPH
- D 302 MPH
- E 186,000 MPH (300,000 km per hour)
- F 7,000 MPH
- H 25 MPH
- J 3 MPH A 27 MPH
- K 39,000 MPH
- L 70 MPH
- M 45 MPH
- N 125 MPH
- P 126 MPH
- S 17,500 MPH
- T 68 MPH W 700 MPH
- X 768 MPH (1 mile a second)

MATCH THE SPEEDS



Answers in this booklet



1H, 2L, 3F, 4E, 5W, 6S, 7M, 8T, 9N, 10C, 11I, 12A, 13D
14K, 15P, 16X, 17B

WESTGATE SCIENCE CLUB

For dates, times & other events see website

The Science Club is held at the Westgate Church Building
(opposite The Picture House),
Bartholomew Street West, Exeter - EX4 3AJ

phone Mike Coles Exeter 253064
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e mail westgatescienceclub@gmail.com

Autumn 2012 dates - Fridays - to be
announced - check out our website



Making Science Cool
for Primary School
Children aged
7 yrs plus.

History...

See what experiments we did on previous club evenings.

at www.westgatescienceclub.org.uk
Slide show and photos on the 'contacts' page

MERCURY
VENUS
EARTH
MARS
JUPITER
SATURN
URANUS
NEPTUNE
PLUTO



On 12th-13th March Venus & Jupiter will appear very close together.

The first half of March gives us one of the best times for viewing the planets with the unaided eye for many years.

After sunset Jupiter and Venus are seen in the west whilst Mercury may be seen below.

Later, Mars reaches opposition on beginning of March

so will be seen south around midnight and Saturn.

Saturn rises about 4 hours after sunset in the East.

Use a pair of binoculars or a small telescope to see the 4 moons of Jupiter.



www.westgatescienceclub.org.uk