

WESTGATE SCIENCE CLUB

issue 15

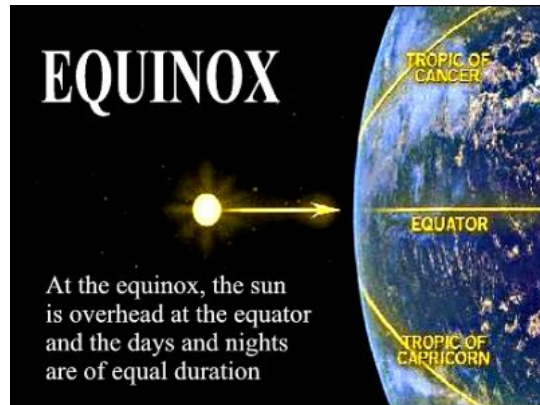
SEPTEMBER 2012



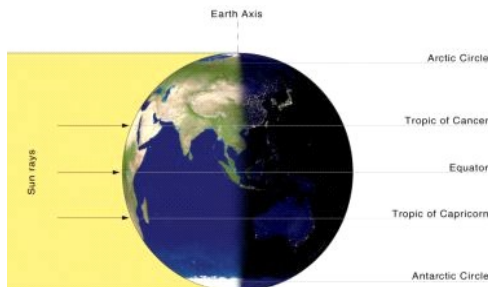
making science cool

**The September
equinox will occur
Saturday
22 September**

This marks the beginning of Autumn in the northern hemisphere and Spring in the southern hemisphere from an astronomical viewpoint.



On 22 September the Sun will rise directly in the East and set directly in the West.



WRITE DOWN HERE date and where in the sky you observed the moon...

THE MOON

22 TO 25 SEPTEMBER

is the best time this month to observe the moon. Check out craters on the moon with a pair of



binoculars or a small telescope.

WESTGATE SCIENCE PUZZLE

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

WESTGATE SCIENCE CLUB ALUMINIUM IRON
LEAD CALCIUM CARBON LITHIUM CHLORINE
COPPER GOLD HELIUM HYDROGEN IODINE

OXYGEN NICKEL PLATINUM TIN SODIUM
SILVER ZINC SOLID GAS LIQUID
AIR WATER PRESSURE ATOM ELECTRON

Can you match the meaning of these words?

Draw a line to connect the word its meaning

EVAPORATE	RESISTANT TO SCRATCHING
DISSOLVE	RETAINS ITS SHAPE AND DOES NOT FLOW
SOLUBLE	FIXED VOLUME AND TAKES SHAPE OF CONTAINER
INSOLUBLE	A MIXTURE OF ONE SUBSTANCE DISSOLVED IN ANOTHER
GAS	FILLS ALL THE AVAILABLE SPACE AND FLOWS EASILY
LIQUID	A SUBSTANCE THAT DOES NOT DISSOLVE EASILY
CONDENSE	TO CHANGE FROM A SOLID TO A LIQUID
SOLUTION	TO CHANGE FROM A GAS TO A LIQUID
SOLID	ALLOWS WATER TO SOAK THROUGH
VERY HARD	TO CHANGE FROM A LIQUID TO A SOLID
PERMEABLE	TO CHANGE FROM A LIQUID TO A GAS
MELT	A SUBSTANCE THAT DISSOLVES EASILY

There will be prizes given to those who complete the booklets and return on the last Science Club night of this Autumn. And if you also complete other previous editions.



WHAT IS A LIGHT YEAR?

- A 12 months of 24 hrs daylight.
- B The distance light travels in one year
- C The name of every 4th year which has 366 days.

AT WHAT TEMPERATURE DOES WATER BOIL ?

- A 100 degrees Centigrade
- B 212 degrees Centigrade
- C 32 degrees Centigrade

ACETIC ACID IS FOUND IN...

- A Marshmallow
- B Dark chocolate
- C Vinegar

WHAT IS THE HEIGHT (above sea level)

AT THE TOP OF HAYTOR ROCKS?

- A 457 metres = 1,490 feet
- B 500 metres = 1,640 feet
- C 395 metres = 1,295 feet

THE CHEMICAL NAME OF TABLE SALT IS?

- A Sodium Bromide
- B Sodium Hydroxide
- C Sodium Chloride

WESTGATE SCIENCE CLUB— a touch of BIOLOGY word search

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

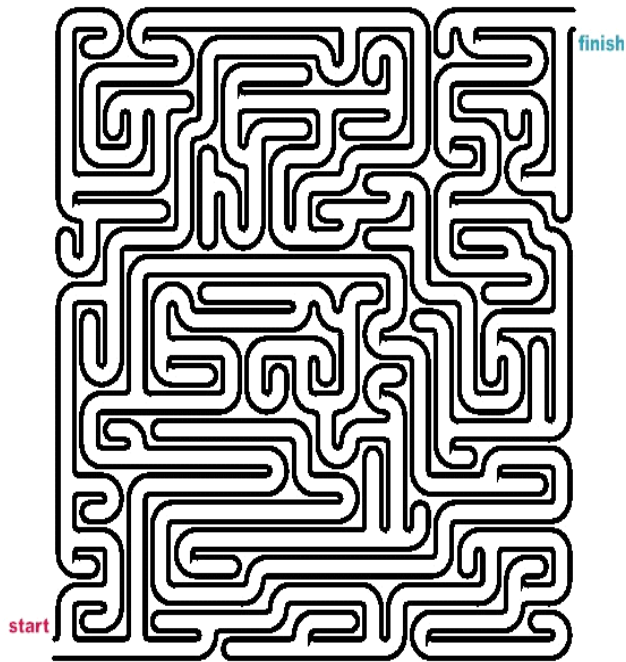
WESTGATE SCIENCE CLUB BIOLOGY GENE PH
EXPERIMENT STUDY OF LIFE CELL REPRODUCTION

SPECIES ECOLOGY BLOOD
PLANT ANIMAL WATER EARTH SEA FISH LAND

MICROSCOPE SOIL LIVING ORGAN BONE



Find your way from the start to the finish
of the experiment



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
Naomi Patkai Exeter 466251
e mail westgatescienceclub@gmail.com

Autumn 2012 dates: Friday 14 Sept,
Friday 19 Oct, Friday 9 Nov, + 1 more=tba.



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

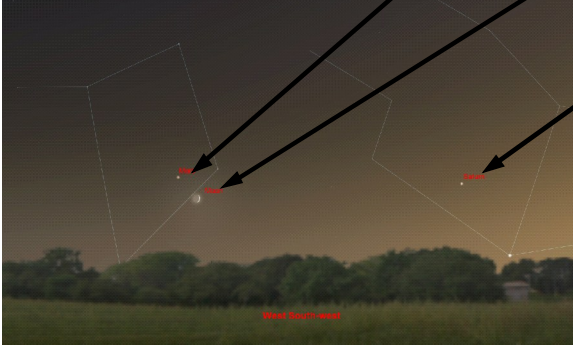
History...

See what experiments we did on previous club evenings.

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

THE NIGHT SKY

Wed 19th September—Given a clear sky and a good low western horizon on the 19th of September, Mars (magnitude +1.2) will be seen just up to the left of a thin crescent Moon with Saturn (magnitude +0.8) appearing over to their right.



CHECK WHEN YOU CAN SEE THE ISS—INTERNATIONAL SPACE STATION WHEN PASSING OVER

Go to westgatescienceclub.org.uk then to the Astronomy Page then scroll down.

FILL IN THE MISSING PLANETS:

Mercury, Venus,.....Mars, Jupiter.....Uranus
Neptune and.....(the demoted one!)



www.westgatescienceclub.org.uk