



making science cool

Your Feet

Most people have
26 bones,
107 ligaments,
19 muscles.

14 of the 26 bones are found
in the toes. Each toe has 3 bones, except the big toe
which has 2.

The skin on your feet is thicker than anywhere else
on your body.



When buying shoes, it is always a good idea to buy
them late in the day, when your feet are tired and
maybe slightly swollen. In this way you are
unlikely to buy shoes that are too small.

When you are walking normally, the whole foot is
never flat on the ground.

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25% of the bones in the human body are located in the feet.



Your feet contain about 250,000 sweat glands which excrete up to half a pint of moisture every day.

When we run, our body weight is multiplied three times, with our feet bearing the brunt of this stress at every stride. - Over 1,000 strides per mile, per foot.



Your big toe helps you to balance

Your heel bone is the largest bone in the foot, and absorbs the greatest amount of shock and pressure from walking, running, and other activities.

Science Club - March

Dry Ice at -73 C and on the left 'jars of highlight pen liquid' reacting/glowing in Ultra Violet Light



Dry Ice

Bottom picture: We discovered how 'red cabbage liquid' reacted to a 'base' or an 'acid' liquid being added.



2 www.westgatescienceclub.org.uk

3 www.westgatescienceclub.org.uk

WESTGATE SCIENCE CLUB PUZZLE

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

WESTGATE SCIENCE CLUB EXETER

APPLE FIR BIRCH CHESTNUT MAPLE

OAK PEACE ELM PINE WALNUT

WILLOW ROSE TREES SEED

challenge yourself and your friends

1. What is special about the date of June 21st ?
 A - It's the longest night.
 B - It's the longest day
 C - It's the warmest day

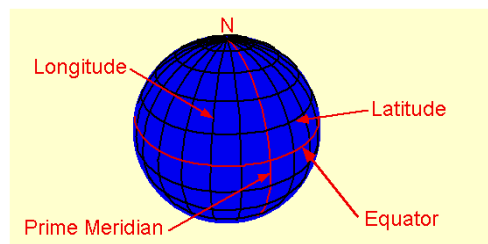
2. What is the distance between Exeter Canal Basin and Turf Locks
 A - 2 miles, B - 5 miles, C - 6 miles.



3. When was the Exeter Canal built ?
 A 1160's B 1560's
 C 1760's D 1860's

4. How long is the river Exe?
 A 30 miles. B 60 miles, C 70 miles,
 D 80 miles

FACT...EXETER is 50 degrees 42' 0" NORTH of equator. And 3 degrees 32' 0" WEST of the Meridian line at Greenwich, London



NUMBER SEARCH

8	5	2	7	1	3	8	8	4
8	6	7	5	6	4	8	0	0
1	8	8	9	9	9	6	6	9
6	6	1	5	3	6	8	3	9
3	4	0	2	9	5	0	6	1
7	0	4	3	7	9	2	0	5
6	5	0	8	2	5	6	2	1
1	4	1	2	8	7	4	7	2
2	6	7	5	4	9	9	4	7

backwards, up, down, diagonally,

1388 6693 1512 6943 4457 7499 5222
7515 6528 7935

FACT - Did you know that the Earth isn't perfectly round, it's slightly flattened at the north and south poles.

FACT - The world's largest desert is the Sahara covering nearly a third of Africa!

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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

Spring 2011 dates - Fridays - 14th January,
 18th February, 11th March, 8th April.
 For future dates & events see website



Making Science
 Cool
 for Primary School
 Children
 aged 7 yrs +

View slide show of our Opening in September 2010.
 See what experiments we did on other club evenings.

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

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ISS - the International Space Station -

Looks like a very bright moving star.
Often you can view this in the sky over Exeter. Go to

www.westgatescienceclub.org.uk
the 'Astronomy' page for the dates and times to view **the ISS** from EXETER.



1. What is the main gas found in the air we breathe ?
A Oxygen, B Hydrogen, C Nitrogen, D Carbon Dioxide.
2. In one of our previous Science Clubs we held a balloon over a candle and touched the flame, it didn't burst. Why not?
A We cooled the balloon beforehand. B We blew the candle out.
C We poured an egg cupful of water into the balloon beforehand.
3. Solar power generates electricity from what source ?
A The Moon, B The Sun, C The Earth, D The Air
4. The Hubble Space Telescope is named after which Astronomer ?
A Patrick Moore, C Prof Brian Cox, D Edwin Hubble,
5. What is the name of the closest star to Earth?
A Sirius, B Alpha Centauri, C The Sun, D Polaris
6. What voltage in an AA battery?
A 1 volt, B 1.5 volts, C 3 volts, D 9 volts
7. What is the next prime number after 7?
A 8, B 9, C 10, D 11, E 12, F 13, G 14, H 15
8. What does the '2' stand for in H₂O?
A 2 letters, B 2 atoms, C 2 milligrams, D 2 nucleus,
9. The shape of DNA is called?
A a double helix, B a circle, C a polygon, D a nanagon

Check out your answers on the ASTRONOMY page at
www.westgatescienceclub.org.uk