

WHAT COULD iBE?

CAREER IDEAS FOR KIDS & PARENTS

SCOTLAND EDITION 01 | OCTOBER 2014

BUILDERS & SHAPERS

HOW DID IT GET THERE? WHO BUILT IT?
WHO MAKES IT WORK?

IN ASSOCIATION WITH

EveningTimes **sundayherald**



Skills
Development
Scotland



SO! WHAT ARE YOU GOING TO DO IN THE NEXT 5 MINUTES?

CHECK YOUR PHONE? WATCH ANOTHER CAT VIDEO ON YOUTUBE? SEE HOW MANY MARSHMALLOWS YOU CAN STUFF IN YOUR MOUTH? OR. MAYBE... HAVE A THINK ABOUT WHAT JOB YOU'RE GOING TO BE DOING IN THE FUTURE?

Hi. Welcome to the very first edition of What Could I Be?, a unique publication (we call it an i-zine) which we've built and shaped just for you. It's also for your parents or carers, your teachers and the people who will one day offer you a job, or lend you the money to start your own business, but it's mostly about you.

By looking at the world around us we want to give you some ideas about jobs and careers. We do this by asking questions like, 'How did it get there? who built it? or who makes it work?'. But we can't ask or answer every question because you need to do some of it yourself.

That's your part of the deal. It's what we call a partnership.

So far, our team, our partner the Herald & Times Group and our many sponsors, have been great. We've been learning together, sharing values, encouraging each other's ideas and facing new challenges.

All that's been missing is you. So I'll let my friends introduce what we have built and shaped. We hope you find it interesting and fun.

But I guess the measure of whether it is useful, is entirely in your hands.

Tim



marshmallows

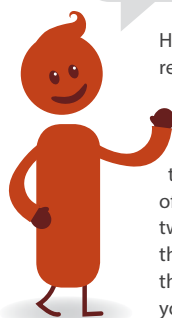
Now, we can't help you in your choice of cat videos or make the marshmallows any smaller, but we can help you get some new ideas about the world of work. In this i-zine, you'll find out exactly what jobs are involved in the building and shaping of the places where you live — has a land-artist just landed? Or will you join a team of joiners? And if you don't know what these are, you'll find out within these pages.

WHAT COULD I BE? IS YOUR ANSWER TO ALL THE QUESTIONS YOU'VE EVER HAD – ABOUT JOBS. (NOT MARSHMALLOWS – JUST TO BE CLEAR.)

In this issue we're focusing on just one part of the job market, but in future editions we'll be covering every job imaginable and many more besides. So take a look through the pages, fill in the quizzes and play the games and gain a little more knowledge about the rest of your life.

All right, the answer's seven, you can fit seven marshmallows in your mouth.

iNO



Hello. I'm iNO. Not much more to it really. I know the other two think I'm too serious. But I know you can never have too much knowledge. And I know there's always a fact to be learnt. I know the world's full of them. For example, I know that no two snowflakes are the same. I know that facts are interesting and I know that you can use them to impress your friends. I know LiNK and iDA always say that I need to dream more. But I know I'm happy as I am. I know where I'll be if you need me, I'll be providing you with a statistic or two about any given subject. I know you probably want to get going now, but that's me, iNO.

iDA



Oh Hey! I see you made it this far, good going. You'll be back to the marshmallows before you know it. They want me to introduce myself, I'm iDA I'm basically you. (Not in the parallel universe, creepy clone way before you run off. Although...) Nah, I'm just kidding. I'm here as your guide. Your eyes and ears, well actually look at me, I don't really have ears but you get the picture. I've known these other two since before I can remember and I've always been the one in the middle, the leader. iNO says I'm too light hearted, LiNK says I don't think enough, but really I'm just right. Look for me on the page and I'll be the one making sense of it all, probably with a joke or two, nothing too cheesy mind, I'll keep them Brie-f. I can't wait to show you around.

LiNK



Psst you! Hey you, I've got this idea, It's a winner. We basically just need two fully-grown adult giraffes, a bag of cement, and some custard. Oh? introduce myself? I'm LiNK, you'll probably have heard about me, I'm the thinker of the trio, I haven't got much time for practicalities and I certainly couldn't care less about those facts iNO keeps bleating on about. I'm here to get you thinking, linking things together. I guess that's why they call me LiNK. I'm just a couple of small steps away from making it big and when you see me on the page I'll be the one asking the questions. Now, back to how we can get hold of those giraffes...

SCIENCE
COMES FROM THE
LATIN WORD "SCIENTIA,"
MEANING
KNOWLEDGE.



SCIENCE IS BiG

FINDING OUT WHAT SCIENCE IS AND DOES
HELPS US ALL UNDERSTAND MORE ABOUT
THE NATURAL WORLD WE LIVE IN. SCIENCE IS
EVERYWHERE FROM GRAVITY AND THE
STARS TO FOOD AND PLASTICS.



INVESTIGATORS

try to understand the
unknown.



EXPLORERS

find the next piece
of a science
puzzle.



DEVELOPERS

take information to make
things.



MONITORS

make sure science is
safe to use.

THERE ARE LOTS OF WAYS TO BE A SCIENTIST



COMMUNICATORS

tell us about science.



TEACHERS

educate kids how to do
science.



ENTREPRENEURS

bring science to business.



WORD MATCH

Match the Scientist with what they do

- | | |
|----------------------|-------------------|
| Archaeologist • | • Human Mind |
| Biologist • | • Physics |
| Computer Scientist • | • Planets |
| Geneticist • | • Living things |
| Marine Biologist • | • Chemistry |
| Meteorologist • | • Genes not Jeans |
| Psychologist • | • Animals |
| Physicist • | • Past |
| Astronomer • | • Weather |
| Chemist • | • Water |
| Zoologist • | • Computers |

5 FIVE THINGS SCIENTISTS NEED TO DO

1

Find an **IDEA** to explore or a
QUESTION to answer.

2

Make observations using
their **SENSE** of sight, touch,
smell, taste and hearing.

3

EXPERIMENT to check and
check again to see if they get
the same answer.

4

Write and **SHARE** what they
find out.

5

Have an **OPEN** mind to more
questions.



22 MARCH
IS WORLD
WATER DAY!

70%
OF THE HUMAN BODY
IS MADE OF WATER.

In UK homes there
are about 45 MILLION TOILETS.
They use more than TWO BILLION
LITRES of water every day.

Each home flushes more
than 5000 TIMES
every year.



Solving our need for clean water to drink, water to grow plants and animals, water for industry and water for sanitation is the job of thousands of different builders and shapers. These people do all sorts of jobs and what they all have in common is understanding how important water is for life.

- Houses, villages, towns and cities are healthier with sanitation.
- Drinking clean water keeps people healthier.
- The world needs water for development.
- Too much and too little water causes disasters.

443 MILLION
SCHOOL DAYS ARE LOST
EACH YEAR DUE TO
WATER-RELATED
DISEASES.

1 IN 8
PEOPLE DO NOT HAVE
ACCESS TO SAFE AND
CLEAN WATER.

IN 2008
WATER WAS DECLARED A
HUMAN RIGHT

Less than
1%
of the water supply on
earth can be used as
drinking water.



Water is everywhere. But water is not always in the right place at the right time.

THE WATER AID STORY

In 2013 Water Aid UK celebrated its 32nd birthday. Since the charity began they have reached 19.2 million people with safe water and 15.1 million people with sanitation.



Muniru (centre), Alfred (right) and Massah (left) collect dirty water from the Wanjai River in the village of Vaama, Sierra Leone.



In a remote village taps were turned on for the first time in 2013, bringing safe clean water to the community. Two girls rushed back from school so that they could play in the water.



Young girls often have to miss school to collect unsafe water from far away sources.



A woman collects safe, clean water from a hand pump as children celebrate in the village of Nyeama, Sierra Leone.

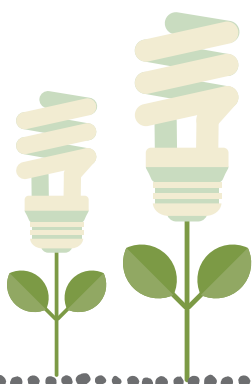
Photos courtesy of Water Aid UK

CLEAN WATER IS ESSENTIAL FOR LIFE.

WATER ON EARTH

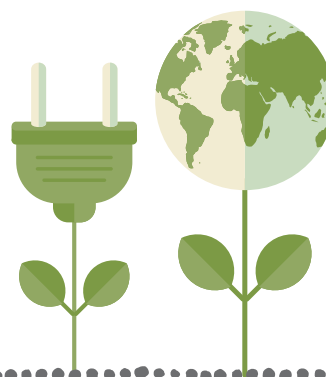
On our planet there is much more water than there is land. Water is found on the Earth's surface, underground and in the air. Water is the only substance found on earth in three forms: liquid, gas and solid.





ENERGY TO LIVE

Energy is important to everyone in the world. Every time we flip a switch to make something work, turn on a car, catch a plane and cook some yummy food we demand energy.



We don't just use water as an energy source but also to extract, clean, irrigate and transport other forms of energy.

The choices we make about how we use energy impacts our environment and our lives.

TURNING LIGHTS OFF IS ONE WAY YOU CAN HELP CONSERVE ENERGY.



BRAIN TEASERS...

Q: WHY DID THE FOOLISH GARDENER PLANT A LIGHT BULB?

A: He wanted to grow a power plant!

Q: WHAT IS A RENEWABLE ENERGY SOURCE THAT IS USED EVERY DAY AT YOUR SCHOOL?

A: Brain power

Q: HOW DO ENERGY-CONSCIOUS PEOPLE FEEL ABOUT WIND POWER?

A: They were blown away!



WORKING IN ENERGY

More than 400,000 people in the UK work in the Oil and Gas industry. The Wind, Wave and Tidal sector employ 18,000 people.

SEE IF YOU CAN FIND THE ENERGY JOBS IN THE WORD SEARCH

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

1. Conservationist
2. Designer
3. Driller
4. Ecologist
5. Engineer
6. Environmentalist
7. Geophysicist
8. Hydrogeologist
9. Hydrologist
10. Researcher
11. Salesperson
12. Technician

WHAT KINDS OF ENERGY ARE THERE?



RENEWABLE AND SUSTAINABLE.

- Solar and geothermal energy
- Tidal and wind power
- Biofuels from plants

FOSSIL FUELS LIKE OIL AND GAS ARE
NONRENEWABLE
SINCE THEY TAKE MILLIONS OF YEARS TO FORM.



In our world water and energy are interlinked - often they work together.

Study at Scotland's Rural College
Experts in Sustainability | www.sruc.ac.uk/education





Builders and shapers of dirt, grass, plants and trees help to solve our need for natural beauty, like Jupiter Artland near Edinburgh.



Hundreds of slaves built the Pyramids 4500 years ago, to highly engineered designs. They took up to 50 years to build, which meant that many people who started them died before they were finished.

SHAPING NATURE

EVER BUILT A SANDCASTLE ON THE BEACH OR A DEN OUT OF BRANCHES? MAN HAS BEEN USING THE NATURAL MATERIALS AROUND THEM FOR THOUSANDS OF YEARS TO BUILD AND SHAPE EVERYTHING FROM BUILDINGS AND HOMES TO LANDSCAPES AND ART. SCULPTURE, TIMBER FRAMES AND ASTONISHING LANDSCAPES HAVE ALL COME ABOUT BECAUSE SOMEONE, SOMEWHERE BEGAN CARVING, SAWING, LIFTING AND MOVING STONE, EARTH AND WOOD.



DID YOU KNOW?

Europe was covered almost entirely in wood at one time – all the way to the Mediterranean. Now in some places, so much was used to build ships and houses that there are no trees left.



Wood has been used in construction for thousands of years, either as a solid and strong frame or, for interior fittings and fixtures like doors and windows.



The Romans used wood for the wheels of their chariots

Wood was also used as the first form of transport. Hollowed out tree trunks were used to travel on rivers.



Morrison Construction

constructing a sustainable future
www.morrisonconstruction.co.uk



SOFA, SO GOOD

FROM RAW MATERIALS TO MANUFACTURING – MANY DIFFERENT JOBS WORKING TO MAKE US COMFORTABLE.

CONNECTIONS

All these connections are making me think. Imagine if we built a bridge to America? Then we could drive from the Eiffel Tower to the Statue of Liberty.

THE WORLD WE ALL LIVE IN TODAY IS CONNECTED BY MAN-MADE BRIDGES, TUNNELS, ROADS AND RAILWAYS. YOU COULD HOP ON A TRAIN NOW FROM ANYWHERE IN THE UNITED KINGDOM AND END UP SOMEWHERE IN MAINLAND EUROPE BY THE END OF THE DAY. SO HOW MANY JOBS DO YOU THINK THERE ARE THAT BUILD AND SHAPE OUR CONNECTIONS?

CHANNEL

TUNNEL



Yes but LINK, you can't just start building things, there's years of planning that goes into these connections, the first idea for the Channel Tunnel was more than 200 years ago.

So... You're saying I'm 200 years ahead of my time? I'M GOING TO BE RICH!

SYDNEY HARBOUR

BRIDGE



PANAMA CANAL



THE PANAMA CANAL

The **Panama Canal** was built in 1914 joining the Atlantic and Pacific Oceans and in the process revolutionising international trade.

The Canal **stretches for 50 miles** and meant that ships could take a significant short cut rather than have to go around the south of South America.

THE CHANNEL TUNNEL

The **Channel Tunnel** opened in 1994 connecting Britain to France. Its construction took 4 years and over **13,000** people worked on the project.

As a by-product of the intensive drilling that took place to make the tunnel, the **millions of cubic feet** of excess chalk was built into a seawall that spanned 73 acres.

SYDNEY HARBOUR BRIDGE

The **Sydney Harbour Bridge** is one of the most iconic images on Earth. Its construction is also one of the most interesting.

Taking 8 years to build and opening in 1932, it is still to this day the **largest steel arch bridge in the world**, with the top of it standing 134 metres above sea level.

Anyone for a game of Connect 4?

Did you know that steel expands and contracts when it gets hot or cold? This means the Sydney Harbour Bridge can rise or fall by 18cm depending on the time of year.

The Panama Canal today transports 4 percent of all the world's trade!



BIG TIME CONSTRUCTION

Many jobs are involved in the building of iconic attractions. These major constructions are the ones that define geographical areas and are often the first things that come to mind when thinking of a place. We've all seen pictures of these buildings but do you really know what goes in to creating them?

The Falkirk Wheel is 35 metres tall, the equivalent of
8 DOUBLE DECKER BUSES
stacked on top of one another!

THE FALKIRK WHEEL is a huge feat of engineering and construction. It replaced 11 locks by connecting two canals using the world's first and only boat lift and is now one of Scotland's biggest tourist attractions. Its construction involved over **1,000** different individuals.

The Falkirk Wheel only uses
1.5KWH OF ENERGY
to turn. The same amount as it would take to boil
8 HOUSEHOLD KETTLES

It's **WHEELY** good fun to take a ride on, and also solves an engineering problem at the same time!



THE FALKIRK WHEEL IS THE ONLY ROTATING BOAT LIFT OF ITS KIND IN THE WORLD.

THE SCOTTISH PARLIAMENT BUILDING

is one of the most talked about constructions in British history. It has won numerous awards for its design and architecture. Often designers and architects are asked to design buildings on concepts. These architects were asked to 'achieve a poetic union between the Scottish landscape, its people, its culture, and the city of Edinburgh.'



THE SHARD is the tallest building in Europe standing at 309.4m (1,016ft) high and better than that, 95% of the building materials used in it were recycled. The inside has 10 apartments, 27 floors of offices, three levels of restaurants and 19 floors of hotel accommodation. That's some towering ambition from all involved.



ECITB

Engineering Construction Industry Training Board

Power
YOUR
FUTURE



Scan me!

BE PART OF ENGINEERING
CONSTRUCTION

WWW.ENGINEERINGCONSTRUCTIONCAREERS.CO.UK

THE HOUSE THAT JACK (AND JILL) BUILT

There is no place like home, or so the saying goes. But have you ever thought about what went into making your home and who built it? And what about the things inside your home? The furniture, the electronics, the decorations...?

The pounding beat of a hammer might seem far removed from the delicate art of designing a colour scheme for a bedroom, yet both of these skills (along with many others) are needed to build a home.

ARCHITECTS...

Design new buildings and the space around them. They also work on the restoration and conservation of existing buildings. They manage the construction process, control budgets and deal with planning issues.

PAINTERS & DECORATORS...

Use a range of coverings to enhance and protect surfaces. These surfaces could include plaster, metal and wood.

ROOFER...

Concentrating on the application of materials to make a house water and weather proof.

CARPENTER...

Uses wood, metal fasteners, screws and nails to construct or repair buildings.

JOINER...

Works only with wood, cutting and joining to make items like stairs.

GLAZIERS...

Work on buildings installing glass into supporting frames and units such as double glazing at a house, or carrying out glass repairs.

OTHER JOBS INCLUDE...

CONSTRUCTION PLANT OPERATORS...

Work with machinery and equipment used on building sites such as diggers and cranes.

SCAFFOLDERS...

Put up and take down scaffolding that allows workers to reach the higher levels of a building during construction, cleaning or renovation projects.

PLASTERERS...

Apply different kinds of plaster to internal walls and ceilings so that they are ready for decorating. They also cover outside walls with coatings, such as sand and cement render or pebble-dash.

ELECTRICIANS...

Fit and repair electrical circuits and wiring.

KITCHEN & BATHROOM FITTERS...

Install kitchens and bathroom suites in homes and businesses.

CARPET FITTERS...

Install floor coverings.

FLOOR LAYERS...

Prepare or fit the floor base and sometimes install the coverings. If you enjoy practical work this could be just the job for you.

A CAVITY WALL INSTALLER...

Fits insulation materials in buildings. They may also lay loft insulation, fit draught-proofing and install soundproofing materials. This work reduces energy costs and is good for the environment.

BRICKLAYERS...

Build and repair walls, chimney stacks and decorative stonework like archways. They might also refurbish brickwork and masonry on restoration projects.

PLUMBERS...

Fit, service and repair water pipes and heating systems in homes and businesses.

TILER...

As the tiler you would cover walls or floors with tiles, on jobs ranging from tiling a kitchen or a bathroom. Some tilers can carry out speciality work, for instance on swimming pools and mosaic walls found in landscape gardening.

CAN YOU THINK OF ANY WE HAVE MISSED?

IT'S NOT AS EASY TO BUILD A HOUSE AS I FIRST THOUGHT...

Imagine all those cups of tea that need to be made for all these people. I hope they don't all take sugar!

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& TOOLS

ALL BUILDERS AND SHAPERS
START WITH AN IDEA

MECCANO

Invented in 1898 by a dad with two sons, Frank Hornby wanted to give his boys a system of parts, nuts and bolts so they could build cranes like the ones they loved watching at the Port of Liverpool. Frank's system was originally called "Mechanics Made Easy" but became MECCANO in 1907.



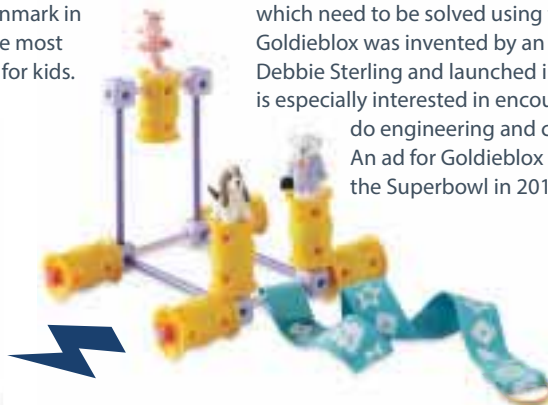
LEGO

Lego allows someone to turn a pile of blocks into a spaceship, animal, car or almost anything. Invented in Denmark in 1932 Lego is probably the most famous construction toy for kids.



GOLDIEBLOX

Through storytelling the character Goldie goes on adventures where she faces problems which need to be solved using the toolkit. Goldieblox was invented by an engineer Debbie Sterling and launched in 2012. Debbie is especially interested in encouraging girls to do engineering and construction. An ad for Goldieblox was shown at the Superbowl in 2013.



THE MYSTERY OF THE OLDEST HAMMER

The London Hammer is thought to be the oldest artefact created by man.

But there are lots of unanswered questions. The rock it was found in is over 400 million years old, long before man walked the earth. The metal has not rusted and is a unique blend with 96% iron.

SO WHAT WAS IT DOING IN LONDON, TEXAS?



London Hammer



Geologist's hammer



Carpenter's claw hammer



Blacksmith's hammer



Rock climber's hammer



Brick hammer



Demolition sledgehammer



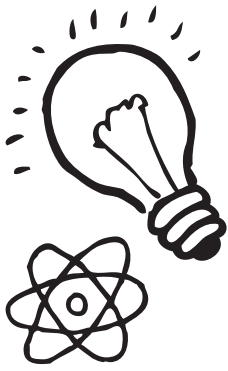
Upholstery hammer



Builder's framing hammer



Auctioneer's hammer



IDEAS FOR ALL



THIS I-ZINE MAY NOT HELP YOU CHOOSE THE CAREER YOU MIGHT WANT TO FOLLOW IN THE FUTURE - AFTER ALL, YOU'VE GOT A LOT OF SCHOOL (AND PERHAPS UNIVERSITY) TO ENJOY FIRST - BUT WE HOPE IT MIGHT GIVE YOU SOME IDEAS TO THINK AND TALK ABOUT WITH YOUR FRIENDS AND PARENTS.

SAY HELLO TO PETER.

HE AND HIS TEAM ARE OUR WCIB PARTNER IN SCOTLAND. WE THOUGHT IT WOULD BE GOOD FOR iNO TO INTERVIEW PETER SO YOU COULD GET TO KNOW HIM.



Q: DO YOU HAVE KIDS

A: Yes, I have a 3 year old boy at nursery and a 5 year old boy who has just started school. We are already doing homework together!

Q: WHAT IS A PARTNER?

A: A partner is someone or a company who shares in the objectives of a project. So, to help and support WCIB, we print and distribute this i-zine to as many of our readers as possible, mostly your grand-parents and parents.

Q: WHAT DID YOU WANT TO BE WHEN YOU WERE 12?

A: I didn't have a clue. I still didn't at 18! I qualified in Engineering before realising it wasn't for me and got into advertising and media with Radio Clyde. I could have saved myself a lot of time, if I'd thought about it earlier. You have that opportunity!



Peter Gillespie
Advertising & Marketing Director
Herald & Times Group

Q: WHY ARE YOU SPONSORING WCIB?

A: We believe in what WCIB want to achieve. To help inform and empower S1 and S2 students to get the most from their education and make informed choices about what they (you) might actually want to do with your lives. There are lots of great career options out there, but it can be a bit bewildering. We hope this helps you make your own mind up in a positive way.

Q: BEST PART OF THE JOB

A: Working with good, creative people and helping them achieve their objectives every day, and to have fun doing so. And, I believe in our newspapers and the quality of our websites, so I want more people to buy and read them every month. When those numbers go up, I'm happy!

Q: WHAT IS YOUR JOB

A: I run all advertising sales and marketing activity for Herald & Times Group in Scotland. So, everything from helping to sell more newspapers and online subscriptions to our websites, to running the teams of people that sell the advertising that goes in those papers and onto those websites.

WHAT WE DO...

We publish The Herald, the Sunday Herald and the Evening Times newspapers and Heraldscotland.com, Eveningtimes.com and a series of other news websites.

2.5M+ people visit our websites every month.

445,000 people read The Herald newspaper every month.

427,000 people read the Evening Times newspaper every month.

sundayherald EveningTimes

1783 was the year The Herald was first published.
(Scotland's oldest newspaper)

477 people work here to write, print, market, distribute, administrate and sell advertising into our various titles and websites.



Small WONDERS...

...BIG differences



From Stacking Cups to Stacking Houses

HOUSING AFTER DISASTERS

Unfortunately no matter how much work goes into building a house, it can still fall down quicker than a nursery rhyme featuring a poorly behaved wolf. When natural disasters strike across the globe, often families are left without shelter or homes immediately.

Intelligent design is providing a solution to this in the form of stackable houses. These shelters are stored in two parts stacked on top of one another like chairs in a classroom. Then, when needed, they can be transported by rail, sea or road to their destination and assembled in minutes.



Will everyone soon be wearing Glasses?

Some of the best builders and shapers in the world are working in secret right at this moment on the next life changing inventions. One of the most recent inventions has been a pair of glasses, which provide information to the wearer on what they're looking at, by tracking the user's eyes. So looking up at the sky will tell you the weather and looking at a restaurant will show you the menu. The original invention was 3 times the size of the ones that are about to go on sale and it has taken the inventors 7 years to get it right. Rumour has it they've already built a working Hoverboard for their next major project.

Art meets Engineering

If you had never visited Scotland before you might be surprised to see a pair of 30 metre high horses heads. And that's exactly what you see driving from Stirling down the M9. The Kelpies as they're known both weigh over 300 tonnes and are an impressive feat of design and engineering. What initially started out as a chalk drawing by sculptor Andy Scott on the floor of his workshop has become a work of art thanks to incredible construction work. During the building process, the construction company found they couldn't even fit The Kelpies in their warehouses.

It's very impressive isn't it? Turning a simple idea into a ginormous structure, but don't you think the horses look a little sad? Hey Horses! Why the long face?

Science of Jumping

Sometimes ideas for inventions really jump out at you. This was certainly the case in 1930, when 16-year-old George Nissen watched trapeze artists at the circus. Seeing them dismount at the end of their routines and bouncing into a safety net below began the spark of invention. 14 years later that safety net was given more bounce and was renamed the 'trampoline' taking the Spanish word for diving board, and adding an 'e' when Nissen got the trademark for his invention. Pretty soon after that, the trampoline became a fixture in gardens around the world and all from the mind of a teenage boy.

Once I've got those two giraffes, the bag of cement and the custard, I'll have to make sure my brilliant idea can't be stolen. But don't worry you'll be learning all about Patents and Trademarks in our next issue on Law and Society, so you've still got time to find me those giraffes.





WHAT COULD iBE?
CAREER IDEAS FOR KIDS & PARENTS

WE THOUGHT YOU'D LIKE TO KNOW...

When the WCIB team were your age, we were at schools in **NEW ZEALAND, AUSTRALIA, ENGLAND, SOUTH AFRICA & SCOTLAND.**

Twitter @WCIB17



IN OUR NEXT ISSUE....

- Why might this flag fly in Scotland?
- Who makes all the rules?
- Is UPCYCLING an alternative to dumping rubbish or a circus act?

...LAW & SOCIETY

WORKING TOGETHER TO SUPPORT YOUR INDIVIDUAL NEEDS AND ASPIRATIONS TO BECOME...



The Scottish Government wants to improve opportunities for young people, support economic growth and increase the number of jobs. Your educational experience should open the doors to your success. The Scottish Government works with lots of organisations and people to help make this happen.

You'll have heard about Curriculum for Excellence and the four capacities: successful learners, confident individuals, responsible citizens and effective contributors. It's our job to share that vision and help turn it into reality.

Learners are the most important part of Scottish education. We want you to be at the heart of your own learning, so you understand how and why you are learning, and how you can progress. We want to make sure you have a range of paths to choose from that meet your own individual needs and aspirations, so you can do your best and get to where you want to be. Parents and carers, teachers, businesses, colleges and universities are some of the people we talk to, so together we can find the best ways to do this.

The Scottish Government wants to ensure that all young people in Scotland develop the knowledge, skills and attributes they will need to flourish in learning, life and work, now and in the future. So that's why we have set out the kind of education all young people are entitled to. All the way from the age of 3, right up until the end of S3 you are entitled to a Broad General Education. You should have challenge and enjoyment, as well as personalisation and choice.

Then, in the Senior Phase, you can extend and deepen your learning and build up your skills, qualifications, and other awards and achievements. Developing your profile will give you the chance to talk about your learning and skills that you have achieved in school and in the community. This should help support you in progressing on to your next stage – perhaps college, university, training or employment.

Skills Development Scotland

In the same way it is important to learn how to manage your money and your health, it's important to learn how to manage your career.

Skills Development Scotland's (SDS) **careers coaches** work in schools with students to develop **career management skills**. They can help you work out what you're good at, what's out there for you, and who can help you get there.

SDS want to support you to develop the ability to adapt and succeed, whatever life throws at you.

SDS careers coaches are highly trained specialists in their field supported by a wealth of knowledge. They work in line with Curriculum for Excellence and this is backed up by the practical support which can be found online at www.myworldofwork.co.uk.

The **My World of Work** web service brings together all of the course, job and career-related information you need to make choices about your future, whatever the stage of your education or working life.

On the website you can find advice articles, tools and videos to help you every step of the way. There is a wide variety of topics from subject choices to Modern Apprenticeships. You can explore information about exam results and the options on leaving school, preparing for a job and volunteering. You can also find tools to help you work out your strengths, look for opportunities, and links to SDS partner sites which also offer support.

From S1 to S6 you can access support from your school careers coach through weekly drop-in clinics. As you move into S3 and beyond, careers coaches also provide group sessions and one-to-one coaching.

Parents and carers can find a wide range of practical and reliable advice to help their son or daughter make an informed choice about their future online at parents.myworldofwork.co.uk.

Teachers have access to resources to support the development of career management skills in the classroom in line with the outcomes of Curriculum for Excellence at My World of Work's popular Partner Zone.



One of the things we do is looking after what is taught in schools, in other words, the curriculum. We help make sure teachers have the support they need and children and young people are getting the opportunities they deserve.

You have already experienced Curriculum for Excellence at primary school and the aim of this new curriculum is to ensure you are best equipped for the modern world and the huge variety of roles and careers that are out there. That's why we talk about the importance of achieving the four capacities – to enable you to be a successful learner, a confident individual, a responsible citizen and an effective contributor.

We want you to develop the knowledge, skills and attributes you will need to flourish in life, learning and work, now and in the future, so you already know different subjects you are studying are important. You will also learn about how to work effectively with other people, career planning and about pursuing a healthy and active lifestyle.

Making the link between the classroom and the workplace lets you see the relevance of what you're learning in school and see how you too can contribute to your school, community and to the economy. We want you to feel valued and involved and experience challenge and enjoyment; your confidence can increase and this too can have a positive impact on how you do in school.

Over your time in secondary school you should have the opportunity to:

- build your knowledge and understanding of the workplace, what employers may expect of you and what you can expect from employment
- experience enterprising activities and an enterprising culture
- have access to more specific opportunities for learning through Skills for Work courses or other vocationally relevant qualifications.

These opportunities will enable you to develop the skills, confidence and abilities to become the employees, employers and entrepreneurs of the future.

Find out more about Education Scotland www.educationscotland.gov.uk



SQA is responsible for designing and developing the new National Qualifications which support Curriculum for Excellence (CfE). The new qualifications will help you to show the knowledge, understanding and skills that you develop at

school and will help prepare you for further learning, training and employment. As well as the National Qualifications, we have lots of other awards, certificates and courses that you can study in school. These can give you life and work skills which will help you understand what it might be like in the workplace.

The New Qualifications are designed to highlight what you can do as well as what you know. They also take into account that different people learn in different ways and will reward your strengths, your hard work and skills – both in and out of the classroom.

Our Wider Achievement Awards recognise the life and work skills that you gain from activities you may already be taking part in at school or elsewhere – such as sport or fund-raising activities.

Skills for Work Courses are all about helping you get to know about the demands and expectations of the world of work. There are lots of courses, covering everything from beauty to construction, and health to hospitality. Take a look at www.sqa.org.uk/skillsforwork

National Progression Awards (NPAs) and National Certificates (NCs) get you ready for employment, career development or studying at HNC/HND level. Both assess your skills and knowledge in specialist work-based areas and are available in lots of subjects. You'll find more information at www.sqa.org.uk/npa

If you need help or advice about any of SQA's qualifications you can ask SAM – find her on Twitter: @MYSQA_SAM and on Facebook at www.facebook.com/MYSQA.SAM

Further information:

www.sqa.org.uk/cfeforyoungpeople
www.sqa.org.uk/pastpapers
www.sqa.org.uk/cfesubjects

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