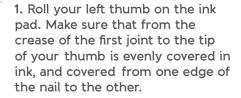


CUTTING EDGE RESOURCES ON LIFE BEFORE BIRTH FOR SECOND-LEVEL STUDENTS

COMPARE YOUR FINGERPRINTS A5 CARD

Your thumbprint: Friend's thumbprint:



- 2. Place your thumb on the box and gently roll from one side of the nail to the other.
- 3. Lift off your thumb, being careful not to smudge the new ink.
- **4.** Identify which class of fingerprint that your print fits into.
- **5.** Compare with your friend's print.



Compare Your Fingerprints

Discover Just How Unique You Are!

Your Everlasting L.D.

No-one has the same fingerprints as you - and your fingerprints never change!

One of the most important and reliable sources of criminal investigation is taking fingerprints, due to two factors - their **persistence** and their **uniqueness.**

Persistence refers to the fact that, after they are shaped in the womb, fingerprints never change over time. Fingerprint ridges start to form just 10 weeks after conception, when the middle layer of skin starts to grow more rapidly than the inner and outer layers. The basal layer buckles and folds, forcing complex shapes. Your movements and surroundings in the womb also affect your unique fingerprint.

There are 3 classes of finger prints:



The Loop

The most common type. Present in 60-65% of fingerprints.



The Whorl

This class of fingerprint is found in 30-35% of fingerprints.



The Arch

The least common type. Occurring in only 5% of people.

Info: crimemuseum.org and fbi.gov

CLASSROOM
MATERIALS
DESIGNED
SPECIFICALLY FOR
SECOND LEVEL
STUDENTS

©Just the Facts References for information on this car

Want to see what you looked like before you were born?



OPEN-OUT EDUCATIONAL A6 LEAFLET

Test Your Knowledge! How much do you

know about Life Before Birth?





When did you first communicate with your mother? When you were born. A. When you were born.
A. 4-5 days after conception. B. 4-3 days after conception.
C. When you first said Mamma. When you were in the womb, your skin was: B. A Pale green colour.

G. A Pale green as a walnut and as waxy as walnut and as a walnut and as a waxy as a candle. When did you first get ticklish? When all your relatives cooled over you.

A. Never.

3. When all your repation. B. wnen all your relatives co.
C. 9 weeks after conception. When your mother found out she was pregnant, you were; • pregnant, you were:

I pregnant, you were:

Just a bunch of cells the size of a pin head.

Just a bunch of cells the size of a pin head.

A tiny, narfert human with honizone. A. Just a bunch of cells the size of a pin he with brainwayes

A. Just a bunch of cells the size of a pin he with brainwayes

B. A tiny, perfebeat.

B. A tiny, apertoeat.

C. Already asking could you go out on a line of a pin he with brainway out on a line of a pin he with brainway out on a line of a pin he with brainway out on a line of a pin he with brainway out on a line of a pin he with brainway out on a line of a pin he with brainway out of a pin he with brainway of a pin he

When you were 5 months old you got a lot of hiccups because; A. You swallowed some amniotic fluid.

B. You were moving around a lot.

When were the colour of your eyes

determined?

A. 6 weeks after you were born.

B. They change every so often.

C. At the moment of conception.

You were swimming and doing somers

A. 6 weeks after conception.

B. You still can't do the doggy paddle. C. When your mother was 7 months

Your brain waves were first records A. 10 days before you were born.

B. 43 days after conception.

C. You're not sure if they ever ha

CLASSROOM MATERIALS DESIGNED SPECIFICALLY FOR SECOND LEVEL **STUDENTS**

A6 LEAFLET FOLDS **OUT TO A3 CHART**



CLASSROOM WALL POSTERS A1 SIZE: 3 VERSIONS



Just 21 days after conception your heart starts beating at an ncredible 140 beats per minute.

After 10 weeks you get increasi

Your brain waves can be recorded at 6 weeks!

signs of right or left handedness as early as 8 weeks. In fact, at just eight weeks you are fully formed, and at 9 weeks you've begun to suck your thumb. At 10 weeks your fingerprints start to form - and stay with you, unchanged, for the rest of your life.



active, and would grasp an ob placed in your tiny hand. A weeks, you can recognise \ other's voice! New research sh that you also donate foetal cel throughout her life to fight disc

Want to see what you looked like before you



were born?

CLASSROOM **MATERIALS DESIGNED** SPECIFICALLY FOR SECOND LEVEL **STUDENTS**

Hand of Hope *

Baby Samuel had been diagnosed with spina bifida at 14 weeks gestation. At just 21 weeks, doctors performed surgery on the tiny baby while still in the womb Samuel's hand slipped out of the incision in the womb and around the finger of the surgeon performing the operation. The photo, taken by Michael Clancy,





Life's Little MIRACLES!



The Rescuing Hug Twins Kylie and Brielle Jackson were

born at 28 weeks weighing only 900g each. The smaller twin, Brielle, began to fail, and her heart was struggling. Then a nurse decided to place the twins in the same incubator - and Kylie placed her tiny arm around her sister. Amazingly, Brielle began to improve as she snuggled into her twin, and her heart rate and breathing returned to a healthy rate. Both little girls then continued to thrive

And you're off! At the moment of fertilisation, 23 chromosomes from each of your parents combine to make you: a unique individual human being, never to be replicated. Almost everything about you is coded in your DNA. You just need to grow and develop for the next 9 months.



You've already begun to make novements, and your facial features are beginning to form Your fingers start to separate too, and at 6 weeks your rainwaves can be recorded.



Your Life **BEFORE BIRTH**



See what you looked like **BEFORE YOU** WERE BORN

By just 8 weeks, you are perfectly formed with 90% of all your adult structures present. You'll be showing signs of right or left handedness as early as 8 weeks, and at 9 weeks you begin to suck your thumb. At 10 weeks your fingerprints start to form - and stay with you, unchanged, for the rest of your life.



You're now about 8 cm long from head to rump and at 12 weeks you are moving a lot, kicking and stretching. Your fingers will begin to open and close and your toes will curl. If your mother pokes her tummy you will squirm in response, though she won't feel it yet. Your taste buds have developed and soon you'll be producing a smile!



endings continue to develop, you may experiment with your sense of touch like this baby in the photo touching her ear. At 21 weeks you are now producing many of the same hormones found in adults - such as cortisol in response to pain.



Over the next 11 weeks, you will double or even almost triple your weight Babies born as early as 5 months (21 weeks) have survived.





You have arrived!







CLASS WORKBOOK A4 BOOKLET

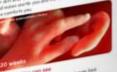


Just the Facts will help you understand how you developed from that first cell, and will take you on an incredible journey through the first nine months of your life.

CLASS WORKBOOK:

CLASSROOM **MATERIALS DESIGNED** SPECIFICALLY FOR SECOND LEVEL **STUDENTS**











JUST THE FACTS

12 minute movie on Life Before Birth



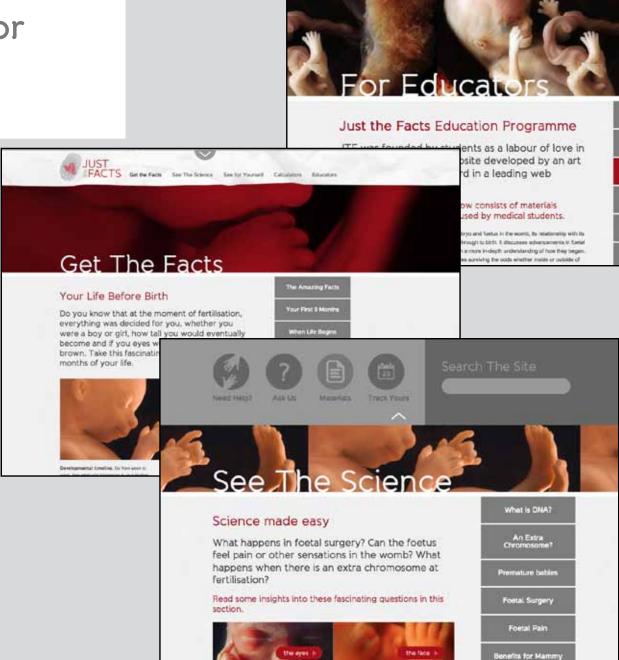
Cutting-edge footage of your journey from fertilisation to birth



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JUST THE FACTS

New website for students and educators



JUST

FACTS Get the Facts See The Science See for Yourself Calculators Educators

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School Visit Request

Materials Reques

Materials Available

I Need Help

Ask Us

Scientific materials, facts, photographs and videos on life birth