INSIDE A BONE

STRONG AND SPONGY Bones aren't just solid shapes.
They are alive, like the rest
of your body. Hard on the
outside, they have a softer
centre, and blood vessels run
right through them.

Nerve

Bone

TUBES IN AND OUT

Bones have little holes and channels in them to hold blood vessels. Blood vessels carry food chemicals and minerals into your bones, so that they can grow and stay healthy. Bones also contain nerves (pathways carrying signals to and from the brain). Nerves tell your brain if your bones are damaged or broken.

BIRD BONES

Flying birds have
hollow bones that are
mostly empty inside.
This makes their skeletons
extra light, helping them to get
off the ground. Our heavier
bones are one of the
reasons why we humans
can't fly, however
hard we flap!

Compact bone

Bones are made of several layers. They go from the hard layers of compact bone to lighter, bubble-like spongy bone on the inside.

Periosteum

Blood vessels

Bone marrow is the soft, fatty substance at the centre of large bones. Your larger bones contain a substance called bone in Job - making new blood cells.

The cells are released from the and travel out into the body. Your bones of the body. Your bones cells every second!

Spongy bone is full of bubble-like holes.
But it's hard, not squishy like a real sponge. The spaces in spongy bone make your skeleton weigh less.

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