Spacetime

The Big Bang
When: 13,800 Million years ago
Gift: Everything that exists started at the Big Bang

Elements

Stars and Supernovae
When: ~ 13,200 Million years ago
Gift: Elements, including C, N, O, P, S, Ca, Fe used for life

Bits that Copy

RNA & DNA
When: ~4,000 Million years ago
Gift: Heredity – that kids get DNA from parents

Life!

Bacteria (Prokaryotes)
When: ~4,000 Million years ago
Gift: Metabolism, breathing
Eukaryotes
When: ~2,000 Million years ago
Gift: mt DNA, protist sexual reproduction

Worms
When: ~600 Million years ago
Gift: Heart, organs

Animals with Heads
Pikaia
When: ~530 Million years ago
Gift: a Head

Fish
Jawless Fish-Haikouichthys
When: ~520 Million years ago
Gift: Mouth, ear
Fish with Jaws

**Placoderms**

When: ~480 Million years ago
Gift: Jaws, tongue, later - teeth

“Fish-amaners”

**Tiktaalik**  
*(Sarcoptergii/Tetrapoda)*

When: ~375 Million years ago
Gift: Limbs, lungs

Land Animals

**Reptiles**

When: ~300 Million years ago
Gift: Lizard brain, amniotic sac, life on land, dry skin

Becoming Mammals

**Dimetrodon (Synapsids)**

When: ~280 Million years ago
Gift: Varied teeth, earbones (evolved from jawbones)
Furry Lizards

*Cynodonts*

When: ~220 Million years ago
Gift: Hair, milk?, body, heat

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Mammals

*Juromaea & Eomaia*

When: ~140 Million years ago
Gift: Breastfeeding, live birth, mammal brain

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Primates

*Eosimias, Proconsul,*

When: ~30 Million years ago
Gift: Hands, arms, monkey brain

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Hominids

*Lucy (A. afarensis)*

When: ~3 Million years ago
Gift: Walking upright, teamwork
Toolmakers

*Homo habilis*

When: ~1.8 Million years ago
Gift: Specialized tool use

Storytellers

*Homo erectus*

When: ~1 Million years ago
Gift: Fire, cooking, *Human Brain*, language

Explorers

*Homo sapiens*

When: ~100,000 years ago
Gift: Human global diversity

Learners & Teachers

*Homo sapiens*

When: ~30,000 years ago
Gift: Collective learning – knowledge, later - science
Domesticators

*Homo sapiens*

When: ~20,000 years ago
Gift: Dogs, cats, farms & food

Community Builders

*Homo sapiens*

When: ~10,000 years ago
Gift: Interconnectivity - Worldwide Human community, Importance of all life on Earth

Parents & Grandparents

Put pictures from your family album here.

And everyone who helped raise you

When: 0 to ~90 years ago
Gift: Much of who you are and your abilities

You pick an ancestor:

Put pictures from your family album here.