Taxa list for Evolve or Perish

Note: The numbers refer to the squares within each period of geological time.

Ediacaran

1) Hypothetical early multicellular life forms.

The odd soft-bodied members of the Ediacaran fauna depicted are:

- 6) Charnia
- 7) Dickinsonia
- 8) Charnia
- 9) Swartpuntia

Cambrian

- 1) Archaeocythan sponges.
- 2) A trilobite (*Paracoxites? Olenoides?*), *Hallucigenia*, *Wiwaxia*, *Opabina* in the background.
- 4) *Anomalocaris*, a strange <u>relative of arthropods</u>.
- 5) Haikouichthys, a very early fish with no jaws or fins.

Ordovician

- 1) *Trinucleus* and *Ogygiocaris* (trilobites).
- 2) Cameroceras, an orthocone nautiloid (a shelled relative of squid).
- 3) Dictenocrinus, a crinoid (a filter-feeding relative of starfish).

Silurian

- 2) Pneumodesmus, a small millipede (3.5cm, 1 3/8 inches).
- 3) Aglaophyton, a tiny early plant.

Devonian

- 1) Pertica, a spore plant.
- 2) *Parameteoraspis*, a jawless fish.
- 4) *Watezzia*, one of the first trees.
- 5) *Dunkleosteus* (a placoderm, an extinct kind of fish) pursuing *Cladoselache* (a shark).

Carboniferous

- 1) Sigillaria, a lycopod tree (nowadays the only surviving lycopods are small spore plants such as club mosses).
- 2) Mixed lycopsid trees, understory of ferns, seed ferns, and horsetails.
- 3) Palaeodictyopteran, an extinct kind of insect.

- 4) *Hylonomus*, the oldest reptile found so far. Reptiles were the first amniotes, which means they were able to lay eggs with a shell out of the water. All earlier tetrapods were amphibians.
- 5) Arthopleura, a giant millipede
- 6) A seed fern and a tree fern.

Permian

- 1) Meganeuropsis permiana, a giant dragonfly ancestor found in Kansas.
- 2) *Edaphosaurus*, a pelycosaur (the group that are distant ancestors of mammals)
- 3) Glossopteris, a seed fern that blanketed the Southern Hemisphere.
- 4) Arctognathus, a therapsid (an ancestor of mammals).

Triassic

- 1) Pleuromaia (a lycopod) and Lystrosaurus (a therapsid).
- 2) *Voltzia*, a conifer.
- 3) Desmatosuchus, an aetosaur (a purely Triassic group of reptiles)
- 4) An early mammal and an early dinosaur.
- 5) Eudimorphodon, an early pterosaur.

Jurassic

- 1) Cycads and monkey puzzle trees.
- 2) Oxynoticeras, an ammonite.
- 3) Omeisaurus, a dinosaur.
- 5) Archeopteryx, the oldest known bird.
- 6) Ferns, distant sauropods

Cretaceous

- 1) Pterodausto, a pterosaur.
- 2) Archaefructis.
- 3) Kronosaurus, a kind of marine reptile called a pliosaur.
- 4) Gracillariid moth on a rose-like flower.
- 5) Tyrannosaurus, a dinosaur.
- 6) Corythosaurus, a dinosaur.
- 7) A shark and a turtle.

Paleogene

1) Palms and broad-leaf trees.

- 2) *Notharctus*, a lemur-like primate, *Coryphodon*, a hippo-like herbivore, and *Hyracotherium*, a horse ancestor.
- 3,4) *Indricotherium*.

Neogene

- 1) Primitive horses such as Merychippus.
- 2) *Homotherium*, a saber-tooth carnivore, and a group of *Australopithecus*, early humans.