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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #20: Evolution

Name: _____ Date: _____

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- _____ allows organisms to adapt as environments change, making life possible.
- In science, the _____ integrates evidence from many fields to explain how populations change over time.
- The _____ shows that organisms from long ago were different from those alive today.
- Whales are _____, a group of mammals that also includes porpoises and dolphins.
- Some whales retain _____ remnants of a pelvis and hind limb bones.
- Fossils revealed distinctive _____ that linked ancient whales to the order including bison, pigs, hippos, and deer.
- Shared body plans like forelimbs with one long bone, two thin bones, carpals, and digits are called _____.
- All life on Earth uses DNA and/or _____ to encode biological information.
- All living things today descended from the first microorganism that arose _____.
- The distribution of species (_____) is shaped by ancient geographic changes like _____.
- After Australia broke away, _____ mammals outcompeted many marsupials on other continents.
- On _____ Major, a hybrid finch lineage became a new species in less than 30 years.
- Increasing resistance to insecticides such as _____ in mosquitoes is a direct observation of evolution.
- Changes in allele frequencies within populations are called _____; over long time scales, broader transitions are _____.
- Italian wall lizards evolved intestinal _____ that helped them digest plants.

Crash Course Biology (2012) #20: Evolution - KEY

1. **Evolution** allows organisms to adapt as environments change, making life possible.
2. In science, the **Theory of Evolution** integrates evidence from many fields to explain how populations change over time.
3. The **fossil record** shows that organisms from long ago were different from those alive today.
4. Whales are **cetaceans**, a group of mammals that also includes porpoises and dolphins.
5. Some whales retain **vestigial** remnants of a pelvis and hind limb bones.
6. Fossils revealed distinctive **ankle bones** that linked ancient whales to the order including bison, pigs, hippos, and deer.
7. Shared body plans like forelimbs with one long bone, two thin bones, carpals, and digits are called **homologous structures**.
8. All life on Earth uses DNA and/or **RNA** to encode biological information.
9. All living things today descended from the first microorganism that arose **3.8 billion years ago**.
10. The distribution of species (**biogeography**) is shaped by ancient geographic changes like **continental drift**.
11. After Australia broke away, **placental** mammals outcompeted many marsupials on other continents.
12. On **Daphne Major**, a hybrid finch lineage became a new species in less than 30 years.
13. Increasing resistance to insecticides such as **DDT** in mosquitoes is a direct observation of evolution.
14. Changes in allele frequencies within populations are called **microevolution**; over long time scales, broader transitions are **macroevolution**.
15. Italian wall lizards evolved intestinal **fermenting chambers** that helped them digest plants.

15 Questions

Answer Key Included

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