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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #16: Animal Development

Name: _____ Date: _____

You can access the video here → https://youtu.be/k_9MTZgAks9?si=iytBZL6jysLqesW

- At the _____ level, animals are classified by early developmental differences.
- A sperm cell and an egg cell are haploid _____ that fuse to form a zygote.
- The diploid cell formed at fertilization is the _____, containing two sets of chromosomes.
- The name for the 32-cell solid ball produced by cleavage is _____.
- As fluid fills the center, a hollow sphere of cells called a _____ forms from the morula.
- _____ begins when an indentation forms and invaginates on the blastula.
- The site of initial inward folding during early development is the _____.
- In a _____ the mouth forms from the blastopore.
- In _____ the blastopore becomes the anus.
- Animals with a single opening and structures radiating from a center have _____ symmetry.
- Most complex animals (except echinoderms) show _____ symmetry.
- Two-germ-layer animals are _____, while three-germ-layer animals are triploblasts.
- The _____ (outer layer) gives rise to skin, nerves, spinal cord, and most of the brain.
- Digestive organs like the esophagus and stomach derive from the _____.
- From the _____ arise muscles, the circulatory and reproductive systems, and most vertebrate bones.

Crash Course Biology (2012) #16: Animal Development - KEY

- At the **phylum** level, animals are classified by early developmental differences.
- A sperm cell and an egg cell are haploid **gametes** that fuse to form a zygote.
- The diploid cell formed at fertilization is the **zygote**, containing two sets of chromosomes.
- The name for the 32-cell solid ball produced by cleavage is **morula**.
- As fluid fills the center, a hollow sphere of cells called a **blastula** forms from the morula.
- Gastrulation** begins when an indentation forms and invaginates on the blastula.
- The site of initial inward folding during early development is the **blastopore**.
- In a **protostome**, the mouth forms from the blastopore.
- In **deuterostomes**, the blastopore becomes the anus.
- Animals with a single opening and structures radiating from a center have **radial** symmetry.
- Most complex animals (except echinoderms) show **bilateral** symmetry.
- Two-germ-layer animals are **diploblastic**, while three-germ-layer animals are triploblasts.
- The **ectoderm** (outer layer) gives rise to skin, nerves, spinal cord, and most of the brain.
- Digestive organs like the esophagus and stomach derive from the **endoderm**.
- From the **mesoderm** arise muscles, the circulatory and reproductive systems, and most vertebrate bones.

15 Questions

Answer Key Included

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