

# ZOOLOGY

**Quick Study**  
**ACADEMIC**

What is an animal? A multicellular, eukaryotic, heterotrophic organism lacking cell walls

## CLASSIFICATION OF THE METAZOAN KINGDOM



## METAZOAN CHARACTERISTICS

- Advantages
  - Larger size
  - Increased mobility
  - Internal homeostasis
  - Relative independence from environment

### Symmetry

- Radial - Circular arrangement with numerous planes creating equal halves; no front/back or left/right sides; possess top/bottom or oral/aboral surfaces (1)
  - Sessile or pelagic forms
- Bilateral - Possess left/right sides (2)
  - "Cephalization" or concentration of sensory structures in the head
  - Unidirectional, active movement using head for orientation

#### 1 RADIAL



#### 2 BILATERAL



### Embryology

- Zygote → 2 cell → 4 cell → 8 cell → 16 cell → Morula (solid ball of cells) → Blastula w/ blastocoel chamber → Gastrula w/ blastopore and archenteron (embryonic gut) (3)

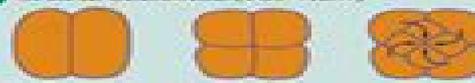


- Three germ layers (from which all tissues develop) in place during gastrula phase: Endoderm, Mesoderm, Ectoderm
- Diploblastic - Organisms produce only ectoderm and endoderm
- Triploblastic - organisms produce all three layers

### 3. Protostome/deuterostome classification

- Cleavage patterns
  - Spiral cleavage - New cells placed at junction between previous cells; protostome feature (4)
  - Radial cleavage - New cells placed directly beside or on top of previous cells; deuterostome feature (5)

#### 4 SPIRAL CLEAVAGE (TOP VIEW)



#### 5 RADIAL CLEAVAGE (TOP VIEW)



- Developmental fate of cells
  - Determinate - Fate of cells determined early; separated early cells incapable of developing into entire organism; protostome feature
  - Indeterminate - Fate of cells determined relatively late; separated early cells can develop into entire organism; allows for "twinning" or genetically identical individuals; deuterostome feature
- Coelom formation - Body cavity lined by mesodermal tissues
  - Schizocoely - Derived from split in mesoderm; protostome feature (6)
  - Enterocoely - Derived from outgrowth of archenteron; deuterostome feature (7)

#### 6 SCHIZOCOEL



#### 7 ENTEROCOEL



- Blastopore fate
  - Mouth; a second opening in embryo forms anus; protostome feature
  - Anus; a second opening in embryo forms mouth; deuterostome feature
- Body plans
  - Acoelomates - No cavity between body wall and organs (1)
  - Pseudocoelomates - Embryonic blastocoel persists as body cavity (2)
  - Coelomates - Body cavity lined with mesodermal tissues (3)



Many inside

# Zoology Study Guide

**SA Dillow**



## **Zoology Study Guide:**

## The Enigmatic Realm of **Zoology Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Zoology Study Guide** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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