**Kingdom Of Animalia**

* They are **eukaryotic** and **multicellular**.
* They have **no cell wall** or **photosynthetic pigments**.
* They are **motile**.
* They are **heterotrophic/**they **cannot** **make** their **own food**.
* They **reproduce sexually** or **asexually**.
* They **store carbon** as **glycogen** and **fat**.

**Major Groups Of Animal And Their Habitats Insects (Arthropods) Or Invertabrates**

**Insects**

* They form a **very large** class of **Arthropods**.
* They **live** in **every possible** environment on **earth**.
* They are among the most **highly adapted** of **all animal species**.
* **Bees, Butterflies, Mosquitoes, House flies, Earwigs, Green fly** and **beetles** are just a fewof the sub groups in this class.
* They have **segmented bodies** with a **firm exoskeleton**.
* They have **three pairs** of **jointed legs**.
* They have **compound eyes**.
* They have two pairs of wings.
* Their body is divided in to three parts**: Head, Thorax,** and **Abdomen.**
* They have **only** **one pair** of **antennae**
* They have **only three pairs** of **legs**.
* They have **no limbs** on the **abdominal segment**.
* **Heterotrophs:** are **organisms** that **cannot produce** their **own food**.
* **Exoskeleton:** is the **external skeleton** that **supports** and **protects** an **animals body**.

**Worm**

* They are **members** of several **invertebrate phyla**.
* They have **flattened**.
* They have **leaf like shaped body**.
* They have **no limbs**.
* They have **no eyes**.
* It includes **Platyhelminthes**(Flat worms), **Annelida**(Segmented worms), **Nemertea**(ribbon worms), **Nematode**(round worms, pin worms) ….etc
* They vary in size from less than 1mm (**0.04 inch**) in certain Nematodes to more than 30m (**100**).
* They **live** in **marine**, **fresh water** and **terrestrial habitats**.
* Some types of worms are **parasitic**, **others** are **free living things**.
* They have **no limbs**.
* They have **no eyes**.
* **Vertebrates**
* (fish, amphibian, reptiles, birds and mammals).
* **Vertebral column** consists of chain of **cylindrical bones** (vertebrate) **joined end** to **end**.

**Major Groups Of Animals And Their Characteristics**

**Fish**

* They are **poikilothermic** (cold blooded) **vertebrates**.
* Many of them have a **smooth**, **wet scales** on **skin**, **stream lined shape**.
* They **breath** by **gills**.
* They **reproduce sexually** or **asexually** **fertilization external**.
* They have **fins** (also used for balance).
* They **live** only in **water** (aquatic environment).

**Amphibian**

* They are **poikilothermic** (cold blooded) **vertebrates**.
* They have **moist skins** with a **good** **supply** of **capillaries**.
* Their **fertilization** is **external**.
* They **reproduce** by **jelly**-**covered** **eggs** in **water**.
* They have **lungs** and **skins** for **breathing**.
* They have **four** **limbs**, **back** **feet** are often **webbed** to make **swimming** more **efficient**.
* They **live** **both** in **water** and on **land**.

**Reptiles**

* They are **poikilothermic** (cold blooded) **vertebrates**.
* They have a **dry** **skin**, with **scales**.
* They have **four legs** (a part from snakes).
* They **reproduce** by **eggs** with a **rubbery**, **water** **proof** **shell**; **laid** on **land**.
* They have **lungs** for **breathing**.
* They **live** most in **warm** **habitats**.

**Birds**

* They are **homoeothermic** (warm blooded) **vertebrates**.
* They have **feathers**, with **scales** on **legs**.
* They have **two wings** and **two legs**.
* They **produce** by **eggs** with a **hard shell**, **laid** on **land**.
* They have **lungs** for **breathing**.
* They have a **beak**.
* They **live both** in **water** and on **land**.

**Mammals**

* They are **homoeothermic** (warm blooded) **vertebrates**.
* They **produce** by **live young**.
* They have **lungs** for **breathing**.
* **Females** have **mammary glands** to **produce** **milk** to **feed young**.
* They have **four types** of **teeth**.
* They **live** on **land**.
* **Poikilothermic:** is an **animal** whose **internal temperature** varies **considerably**.
* **Homoeothermic:** **organism** able to **maintain** a **constant internal body temperature**.