

## **Year 7 Biology Review**

### **What is an organism?**

- A. Anything that is very small
- B. A living thing
- C. A group of animals
- D. Something that does not change

### **2. What is taxonomy?**

- A. The study of fossils
- B. The study of plants only
- C. The system used to classify living things
- D. The study of the environment

### **3. Why do scientists classify living things?**

- A. To make them easier to find in nature
- B. To help understand relationships between organisms
- C. To decide which organisms are the strongest
- D. To change how organisms look

### **4. Which of the following is a characteristic of living things?**

- A. Made of metal
- B. Able to reproduce
- C. Always move quickly
- D. Can be transparent

### **5. Which option best describes a non-living thing?**

- A. It grows and reproduces
- B. It needs energy
- C. It responds to stimuli
- D. It does not carry out life processes

### **6. Which list shows the correct order of classification from largest to smallest?**

- A. Species, Genus, Family, Order, Class, Phylum, Kingdom
- B. Kingdom, Phylum, Class, Order, Family, Genus, Species
- C. Class, Order, Family, Kingdom, Phylum, Genus, Species
- D. Kingdom, Class, Phylum, Order, Family, Species, Genus

### **7. What is binomial nomenclature?**

- A. A system that uses pictures to name organisms
- B. A two-word scientific naming system
- C. A way to group organisms by habitat
- D. A method of identifying fossils

### **8. Which two levels are used in a scientific name?**

- A. Kingdom and Phylum
- B. Family and Order
- C. Genus and Species
- D. Class and Family

**9. Which characteristic could be used to classify organisms?**

- A. Favourite food
- B. Colour of surroundings
- C. Number of legs
- D. Size of population

**10. Why are scientific names used instead of common names?**

- A. They are easier to spell
- B. They change often
- C. They are the same all over the world
- D. They are shorter than common names

Add the missing terms.

**1. What is an organism?**

An organism is a \_\_\_\_\_ that can carry out all the **life** \_\_\_\_\_.

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**2. What is taxonomy?**

Taxonomy is the **science of** \_\_\_\_\_ and \_\_\_\_\_ living things.

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**3. Why do scientists classify living things?**

Scientists classify living things to make them easier to \_\_\_\_\_, to organise them into \_\_\_\_\_, and to show their \_\_\_\_\_.

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**4. What are all the features of a living thing?**

Living things:

- Are made of \_\_\_\_\_
- \_\_\_\_\_ **and develop** \_\_\_\_\_
- **R** \_\_\_\_\_
- Use \_\_\_\_\_ (respiration)
- \_\_\_\_\_ **to stimuli** in their environment
- \_\_\_\_\_ waste
- Need \_\_\_\_\_
- Have a limited \_\_\_\_\_ **span**

Note: In biology **respiration** refers to the production of energy in cells. It does not refer to the process of breathing.

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**5. What is the difference between living and non-living things?**

Living things carry out all **life processes**, while non-living things **do not**.

6. Fire:

- **Uses energy**
- **Grows**
- **Spreads**
- Produces **waste**

**Is fire a living thing?   YES                      NO                      PART LIVING**

7. Viruses:

- Can **reproduce**, but only inside a host cell
- Contain **genetic material** (DNA or RNA)
- Can **evolve** over time

However, viruses are not living organisms because they:

- Are **not made of**
- Do **not g**\_\_\_\_\_
- Do **not r**\_\_\_\_\_
- Cannot r\_\_\_\_\_ **independently**

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**6. List the seven main levels of classification in order.**

The seven levels are **Kingdom**, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and **Species**.

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**7. What is binomial nomenclature?**

Binomial nomenclature is a **two-** \_\_\_\_\_ **scientific naming** \_\_\_\_\_ used to name

**8. Which two classification levels make up a scientific name?**

A scientific name is made from the \_\_\_\_\_ and the \_\_\_\_\_ .

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**9. Give some example of a physical characteristic used to classify organisms.**

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**10. Why are scientific names important?**

Scientific names are important because they are \_\_\_\_\_ and reduce confusion caused by different \_\_\_\_\_ names.

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**11. A newly discovered organism can grow, reproduce, and respond to stimuli, but it is not made of cells. Should it be classified as a living thing? Explain how scientists would decide?**

**12. Which of the following are characteristics of all living organisms?**

Tick the correct answers.

Can photosynthesise

Use energy (respire)

Have fur or leaves

Grow and develop

Made up of cells

**Which of the following processes are carried out by all living things?**

Tick the correct answers.

Reproduce

Move from place to place

Respond to stimuli

Excrete waste

Live in water

