

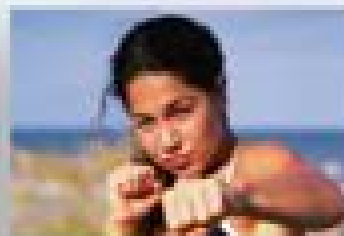
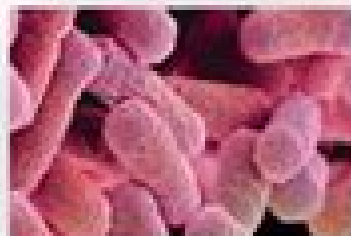
1.1 The Characteristics of Life

Learning Outcomes

Upon completion of this section, you should be able to

1. Explain the basic characteristics common to all living organisms.
2. Distinguish between the levels of biological organization.
3. Summarize how the terms *homeostasis*, *metabolism*, and *adaptation* relate to all living organisms.
4. Contrast chemical cycling and energy flow within an ecosystem.

As we observed in the chapter opener, life is diverse (Fig. 1.1). Life may be found everywhere on the planet, from thermal vents at the bottom of the ocean to the coldest reaches of Antarctica. **Biology is the scientific study of life. Biologists study not only life's diversity but also the characteristics shared by all living organisms. These characteristics include levels of organization, the ability to acquire materials and energy, the ability to maintain an internal environment, the ability to respond to stimuli, the ability to reproduce and develop, and the ability to adapt and evolve to changing conditions.** By studying these characteristics, we gain insight into the complex nature of life, which helps us distinguish between living organisms from nonliving things. In the next sections, we will explore these characteristics in more detail.



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wavelength (in nm). Chapter 25 Nuclear Chemistry 25.2 Nuclear Transformations Sep 5, 2017 — Nuclear Chemistry Targets: 1.I CAN Utilize appropriate scientific vocabulary to explain scientific concepts. 2.I CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay?It decreases by 2.b. ... answer the following questions.Nuclear ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a pro- ton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208 $^{208}_{87}\text{Fr} \rightarrow \text{b} \dots$