



**Chapter 1**

**Figure Questions**

**Figure 1.4** The scale bar is about 0.5 mm long, and it corresponds to 1 µm. The prokaryotic cell is about 2 µm × 20 µm long. Chloride  $\text{Cl}^-$  by 0.5 mmol/mole that, the length of the prokaryotic cell is about 2.4 µm wide. Each scale bar represents 1 µm, so if the prokaryotic cells are about 2.4 µm long. The eukaryotic cell is about 82 µm across (from lower left to upper right) divided by 0.5 mmol/mole  $\text{Cl}^-$  = 16.4 scale bars = 16.4 µm across. **Figure 1.10** The response to osmotic pressure is glucose uptake by cells and glucose storage in liver cells. The normal stimulus is high glucose levels, which are reduced when glucose is taken up by cells.

**Figure 1.10**



**10** Environmental change resulting in survival of organisms with different traits

As the soil gradually becomes lighter brown, beetles that match the colour of the soil will not be seen by birds and therefore will not be eaten. For example, when the soil is medium-coloured, birds will be able to see and eat the darker beetles and any lighter beetles in an area. (About an all off the lighter beetls have been eaten earlier, but new light beetles will appear due to variation in the population.) If this continues, the population will become lighter as the soil becomes lighter.

**Concept Check 1.1**

**1. Examples:** A molecule consists of atoms bonded together. Each organ cell has an orderly arrangement of molecules. The body of a multicellular organism consists of cells called eukaryotes. A tissue consists of a group of similar cells. Organs, such as the heart, are constructed from several tissues. A complex multicellular organism, such as a plant, has several types of organs, such as leaves and roots. A population is a set of organisms of the same species. A community consists of populations of different species inhabiting a specific area. An ecosystem consists of a biological community along with the nonliving factors important to life, such as air, soil, and water. The biosphere is made up of all of Earth's ecosystems. **2. (a)** Major properties emerge at successive levels of biological organisation. Structure and function are correlated. **(b)** Life's processes involve the expression and transmission of genetic information. **(c)** Life explores the transfer and manipulation of energy and matter. **3.** Some possible answers: Digestion (digestive processes). The ability of a human heart to pump blood requires an intricate heart it is not a capability of any of the heart's tissues or cells working alone. Digestion (digestive and metabolic). The strong, sharp teeth of a alligator are well suited to grasping and dismembering its prey. Reflexion. Human eye colour is determined by the combination of genes inherited from the two parents. Energy (matter). A plant, such as a grass, absorbs energy from the sun and transforms it into molecules that act as stored fuel. Animals can eat parts of the plant and use the food for energy to carry out their activities. **4. Examples:** Molecular. When you stand on a scale, it signals your brain to decrease your appetite. Interaction of organisms. A mouse eats food, such as nuts or grasses, and deposits some of the food in a nest as seeds (flowers and berries). Consumption of a nest results in the physical environment and it may become a safe haven for some of its components. The mouse may also eat an food for a predator.

**Concept Check 1.2**

**1.** The naturally occurring heritable variation in a population is "edited" by natural selection because individuals with favourable traits better suited to the environment survive and reproduce more successfully than others. Over time, better-suited individuals persist and their percentage in the population increases, while less well-suited individuals become less prevalent—a type of population editing. **2.** Here is one possible explanation: The ancestor species of the green warbler finch lived on an island where its seeds were a plentiful food source. Among individuals in the ancestor population, there was probably variation in beak shape and size. Individuals with slender, sharp beaks were likely more successful at picking up insects for food. Being more successful, they gave rise to more offspring than birds with shorter, blunter beaks. Their many offspring inherited slender, sharp beaks (because of genetic information being passed from generation to generation, although Darwin didn't know it). In each generation, the offspring birds with the beaks of a shape best suited at picking up insects would eat more and have more offspring. Therefore, the green warbler finch of today has a slender beak that is very well matched (adapted) to its food source, insects.

**3.**



**Concept Check 1.3**

**1.** Mouse coat colour matches the environment for both beach and inland populations. **2.** Inland mice resemble *D. dentissima* from general genetic divergence resulting genetic to a specific outcome from general processes. **3.** Compared to a hypothesis, a scientific theory is usually more general and better supported by a much greater amount of evidence. Natural selection is an explanatory idea that applies to all levels of organisms and is supported by vast amounts of evidence of various kinds. **4.** Based on the mouse coloration in Figure 1.25, you might expect that mice that live on the sandy soil would be lighter in colour and those that live on the lava rock would be much darker. And in fact, that's what researchers have found. They would predict that all the colour of mouse would be less greyed upon in its native habitat than it would be in the other habitat. Research results also support this prediction. You could repeat the Hooke's experiment with colored models, painted to resemble these two types of mouse. Or you could try transplanting some of each population to its non-native habitat and observing how many you can recapture over the next few days. Then comparing the four samples as was done in Hooke's experiment. (The painted models are easier to recapture, of course.) In the first mouse transplantation experiment, you would have to do several trials to determine the most likely experiment led by the transplanted mice being in a new, unknown territory. You could control for the transplantation process by transplanting some dark mice from one area of lava rock to one far distant, and some light mice from one area of sandy soil to a distant area.

**Concept Check 1.4**

**1.** Science aims to understand natural phenomena and how they work, while technology seeks applications of scientific discoveries for a particular purpose or to solve a specific problem. **2.** Natural selection could be operating. Malaria is present in sub-Saharan Africa, so there might be an advantage to people with the sickle-cell disease form of the gene that makes them more able to survive and pass on their genes to offspring. Among a host of African diseases living in the United States, where malaria is absent, there would be no advantage, so they would be selected against more strongly, resulting in fewer individuals with the sickle-cell disease form of the gene.

**Summary of Key Concepts Questions**

**1.1** Finger movements rely on the coordination of the many structural components of the hand (muscles, nerves, bones, etc.), each of which is composed of elements from lower levels of biological organisation (cells, molecules). The development of the hand relies on the genetic information encoded in chromosomes found in cells throughout the body. To power the finger movements that result in a text message, muscle and nerve cells receive chemical signals that they translate in generating muscle contraction and/or propagating nerve impulses. The signal is an electrochemical signal, an electrical that travels in form along between organisms. In the case of the same species. **1.2** In oceans of the beach mouse may have exhibited variation in their coat colour. Because of the prevalence of coastal predators, the better-camouflaged (lighter) mice in the beach habitat may have survived longer and been able to produce more offspring. Over time, a higher and higher proportion of individuals in the population would have had the adaptation of lighter fur that acted to camouflage the mouse in the beach habitat. **1.3** Can't remember all the interesting data, are those activities in the scientific process, and they are affected by, and affect in turn, three or four aspects of the scientific process: population and discovery, community analysis and feedback, and societal benefits and outcomes. **1.4** Different approaches taken by scientists studying natural phenomena at different levels complement each other, so topics learned about each problem being studied. A diversity of backgrounds among scientists may lead to fruitful ideas in the same way that important and innovations have often arisen where a mix of cultures coexist, due to multiple different viewpoints.

**Test Your Understanding**

**1. B 2. C 3. C 4. B 5. C 6. A 7. D 8.** Your figure should show the following: (1) for the biosphere, the Earth with an arrow coming out of a logical ocean; (2) for the ecosystem, a distant view of a coral reef; (3) for the community, a collection of reef animals and fish, with coral, fish, some seaweed, and any other organisms that live in it; (4) for the population, a group of fish of the same species; (5) for the organism, one fish from your population; (6) for the organ, the fish's stomach; (7) for a tissue, a group of similar cells from the stomach; (8) for a cell, one cell from the tissue, showing its nucleus and few other organelles; (9) for an organelle, the nucleus, where most of the cell's DNA is located; and (10) for a molecule, a DNA double helix. Your sketches can be very rough!

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# Campbell Biology Guide Answer Key

**Neil A. Campbell**



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