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which grows and develops through various stages to become an adult. An embryo develops

Many organisms depend on behavior to regulate their internal environment. A chilly lizard may raise its internal temperature by basking in the sun on a hot rock. When it turns to overheat, it seeks cool shade. Other organisms have control mechanisms that do not require any conscious activity. When a student is so engrossed in her textbook that she forgets to eat lunch, her liver releases stored sugar to keep the blood sugar level within normal limits. Hormones regulate sugar storage and release. But in other instances the nervous system is involved in maintaining homeostasis.

Living Things Respond

Living things find energy and nurture by interacting with their surroundings. Even unicellular organisms can respond to their environment. The beating of cilia may cause them to swim or move away from light or chemicals. Multicellular organisms can manage more complex responses. A monarch butterfly can sense the approach of fall and begin its southward migration when resources are still abundant. A vulture can smell a mile away and soar toward dinner.

The ability to respond often results in movement. The leaves of a plant turn toward the sun, and animals dart toward safety. Appropriate responses help ensure survival of the organism and allow it to carry on its daily activities. Altogether, we call these activities the behavior of the organism.

Living Things Reproduce and Develop

Life comes only from life. Every type of living thing can reproduce, or make another organism like itself. Bacteria and other types of unicellular organisms simply split in two. In multicellular organisms, the reproductive process usually begins with the pairing of a sperm from one parent and an egg from the other parent. The union of sperm and egg, followed by many cell divisions, results in an immature individual, which grows and develops through various stages to become an adult.

An organism develops into a whole or a yellow daffodil or a human being because of the specific set of genes inherited from its parents (Fig. 4.2). In all organisms, the genes are made of long DNA molecules that are found in the nucleus of each cell. But even the genes are different between species and even in different tissues. The DNA molecule consists of a molecule of DNA from each parent profile of a child is a record of the genetic makeup of his or her biological parents. All cells in a multicellular organism carry a set of genes, but only certain ones are turned on in each type of specialized cell.

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Ionic bonds
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Instructors simply check the box for the assignment(s) they wish to sync and select which attempt score type they would like to send to Canvas.
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A new gradebook item will be created in the Canvas gradebook the first time the item is synced from Connect. The item name and possible points will be the same as the Connect assignment, and students’ scores will be populated according to the attempt type selected.