

GRADE 7
1a

Cell Biology

All living organisms are composed of cells, from just one to many trillions, whose details usually are visible only through a microscope. As a basis for understanding this concept:

Students know cells function similarly
in all living organisms.

GRADE 7

1b

Cell Biology

All living organisms are composed of cells, from just one to many trillions, whose details usually are visible only through a microscope. As a basis for understanding this concept:

Students know the characteristics that distinguish plant cells from animal cells, including chloroplasts and cell walls.

GRADE 7
1C

Cell Biology

All living organisms are composed of cells, from just one to many trillions, whose details usually are visible only through a microscope. As a basis for understanding this concept:

Students know the nucleus is the repository for genetic information in plant and animal cells.

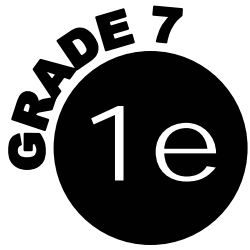
GRADE 7

1d

Cell Biology

All living organisms are composed of cells, from just one to many trillions, whose details usually are visible only through a microscope. As a basis for understanding this concept:

Students know that mitochondria liberate energy for the work that cells do and chloroplasts capture sunlight energy for photosynthesis.



Cell Biology

All living organisms are composed of cells, from just one to many trillions, whose details usually are visible only through a microscope. As a basis for understanding this concept:

Students know cells divide to increase their numbers through a process of mitosis, which results in two daughter cells with identical sets of chromosomes.

GRADE 7

1f

Cell Biology

All living organisms are composed of cells, from just one to many trillions, whose details usually are visible only through a microscope. As a basis for understanding this concept:

Students know that as multicellular organisms develop, their cells differentiate.