



# ORC CURRICULUM MAP

## Grade 8 Science

*Topics Included:*

*Unit B: Cells and Systems*

*Resources Included:*

*Science in Context, Britannica School, ScienceFLIX, TrueFLIX,  
PowerKnowledge Suite, Crash Course*

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## Crash Course Disclaimer

These Curriculum Maps have been updated to include the YouTube educational web series *Crash Course*. This web series is geared towards IV Science. It includes topics related to Earth Science, Physical Science, Biology, and more. These videos can sometimes contain irreverent humour. We encourage educators to preview the videos for appropriateness first before showing them in a classroom or library setting.

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## Background and Access Information

Learn Alberta's Online Reference Centre is a \$1.4 million collection of authoritative curricular aligned resources that are licensed on behalf of all students, staff, parents and public librarians learning/teaching/supporting the Alberta curriculum.

To Access the Online Reference Centre:

1. Go to [LearnAlberta.ca](http://LearnAlberta.ca)
2. Select English or French
3. Click on "Online Reference Centre" in the tab along the top of the screen
4. In school while on a school device, users do not need to enter a username or password. Users are able to enter any database or website instantly.
5. Access from a personal device in school or remotely from outside of the school will require the user to enter a username/password once to unlock all of the resources.
6. Please share your district's ORC username/password with your students, parents of your students, student teachers and fellow staff members. Please do not share the username and password information on an open website (a website that does not require the user to login).

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## How to Use This Guide

Attached please find a listing of databases found on Learn Alberta's Online Reference Centre (ORC) that directly support specific learner outcomes in the grade two science and social studies curricula.

Formatting Overview for PowerKnowledge Databases:

### **Curricular Topic**

*Specific Learner Outcome (SLO)*

Name of the Database

- Topic
  - Subtopic
    - Article Title with Hyperlink
      - Article Sections

Formatting Overview for TrueFLIX:

### **Curricular Topic**

- Topic
  - eBook Title (alphabetized listing found in the Resources & Tools link in the top right hand corner of the screen)
    - Chapters in eBook if applicable

\*Please Note:

- TrueFLIX eBook links will be in the 'Resources Below Grade Level' sections.
- Links from the "Explore More" section of TrueFLIX are at a higher reading level and appear in the "Resources At or Above Grade Level" sections.

## Formatting Overview for ScienceFLIX:

### **Curricular Topic**

#### *Specific Learner Outcome (SLO)*

- Topic Area or Search Term
  - Article/Resource Title

\*Special Note: ScienceFLIX articles are presented in three (3) Lexile levels.

## Formatting Overview for Science In Context:

### **Curricular Topic**

#### *Specific Learner Outcome (SLO)*

#### Science In Context

- Browse Topics (link found in the top grey bar next to Home)
  - Topic
    - Introductory Article/Featured Content/Reference
      - Article Name with hyperlink

### A note about Science In Context:

*Science In Context* is a database that is designed for students in grades six to twelve. As such, some of the content of this database may be challenging for students who may struggle with reading.

However, this database does have several features to make it more user friendly for students with varied skill levels. First, each article indicates the reading level using a symbol just below the title of the article beside the name of the source. A green circle indicates a basic reading level, yellow square an intermediate reading level, and red triangle an advanced reading level. In addition, the "Advanced Search" feature allows users to limit the content search to a basic, intermediate or advanced reading level. This guide will include basic articles in the "At or Above Grade Level" sections and

intermediate articles in the "Above Grade Level" sections. Each title includes a hyperlink that takes you directly to the article in the database.

Last, this database does include a customizable listen feature, as well as a text translation and the ability to download a computer generated reading of the article to an MP3 format.

If you have any questions regarding this guide or if you would like a guide for additional grades please contact Bethany Arsenault, ORC Coordinator at [barsenault@thealbertalibrary.ab.ca](mailto:barsenault@thealbertalibrary.ab.ca)

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# Science 8 Unit B – Cells and Systems

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## Unit B: Cells and Systems

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*SLO 1: Investigate living things; and identify and apply scientific ideas used to interpret their general structure, function and organization*

- *investigate and describe example scientific studies of the characteristics of living things (e.g., investigate and describe an ongoing scientific study of a locally-found organism)*
- *apply the concept of system in describing familiar organisms and analyzing their general structure and function*
- *illustrate and explain how different organisms have similar functions that are met in a variety of ways (e.g., recognize food gathering as a common function of animals, and note a variety of food-gathering structures)*

### **Resources for Students Reading Below Grade Level**

Britannica School: Elementary

- Keyword Search: "Living Things"
  - Article Title: Living Thing
    - Related Resources
      - (many living things listed to investigate)
  - Article Title: Biological Classification
  - Article Title: Chromosome
  - Article Title: Algae
  - Article Title: Plant
- Keyword Search: Organism
  - Article Title: Respiration

PowerKnowledge Life Science

- Human Body
  - Cells
    - [What Is a Cell?](#)
- Classification

- Classification of Living and Non-Living Things
  - [Living and Non-Living](#)
  - [Plants and Animals](#)
- Plants
  - Water and Plants
    - [Water and Life](#)
- Animals
  - Various types to research with info about similar functions (i.e. food gathering, etc.)

#### PowerKnowledge Physical Science

- Elements and the Periodic Table
  - [Elements in Living Organisms](#)

### **Resources for Students Reading At or Above Grade Level**

#### Britannica School: Middle

- Keyword Search: Living Things
  - Article Title: Living Things
    - Basic Needs of Living Things
    - Seven Functions of Living Things
    - Living Things are Specialized
    - How Algae and Plants Obtain Food
    - How Animals Obtain Food
    - Securing Energy from Food
    - Carrying Food and Oxygen
    - The Classification of Living Things
- Keyword Search: System
  - Article Title: Circulatory System
  - Article Title: Lymphatic System
  - Article Title: Reproductive System
  - Article Title: Urinary System
  - Article Title: Respiratory System



- Article Title: Organ (biology)
    - Organ Systems
- Keyword Search: Plant
  - Article Title: Plant (biology)
    - What distinguishes plants from other living things?
- Keyword Search: Animal
  - Article Title: Animal

#### ScienceFLIX

- Topic: Animal Kingdom
  - Explore More
    - Animal Kingdom
      - Life
    - Animal Distribution
      - Animal Behavior
- Topic: Life Cycles
  - Dive Deeper
    - Reproduction

#### TrueFLIX

- Topic: Extreme Science
  - eBook Title: Extreme Experiments
    - Explore More
      - Cell

#### Science In Context

- Advanced Search: Structure of Living Things (Basic & Intermediate Content selected)
  - Reference
    - [Biochemistry](#) (UXL Encyclopedia of Science, 2015)
    - [Anatomy](#) (UXL Complete Life Science Resource, 2009)
- Advanced Search: Characteristics of Living Things
  - Reference

- [Biology](#) (UXL Complete Life Science Resource, 2009)
  - [Functional Characteristics of Living Things](#) (World of Anatomy and Physiology, 2007)
- Advanced Search: Cells
  - Reference
    - [Cell Structure](#) (World of Anatomy and Physiology, updated 2014)
  - Images
    - [\(There are 21\)](#)
- Advanced Search: Comparative Anatomy & Comparative Physiology
  - Reference
    - [Comparative Anatomy](#) (World of Anatomy and Physiology, 2007)
    - [Physiology, Comparative](#) (World of Biology, 2006)
- Advanced Search: Organism
  - Reference
    - [Organism](#) (UXL Complete Life Science Resource, 2009)
    - [Organism](#) (World of Biology, 2006)
    - [Life, What is](#) (Biology, 2016)

*SLO 2: Investigate and describe the role of cells within living things*

- *describe the role of cells as a basic unit of life*
- *analyze similarities and differences between single-celled and multi-celled organisms (e.g., compare, in general terms, an amoeba and a grizzly bear, a single-celled alga and a poplar tree)*
- *distinguish between plant and animal cells (e.g., distinguish between cell walls and cell membranes)*
- *describe the movement of gases and liquids into and out of cells during diffusion and osmosis, based on concentration differences [Note: This outcome requires a general understanding of processes, not a detailed analysis of mechanisms.]*
- *examine plant and animal structures; and identify contributing roles of cells, tissues and organs*

## **Resources for Students Reading Below Grade Level**

Britannica School: Elementary

- Keyword Search: Cell
  - Article Title: Cell (biology)
  - Article Title: Bacteria
  - Article Title: Biological Classification
  - Article Title: Protozoan (microorganism)
  - Article Title: Growth
- Keyword Search: "single-cell"
  - Article Title: Plankton
  - Article Title: Fungus
  - Article Title: Protozoan
  - Article Title: Algae
  - Article Title: Amoeba
- Keyword Search: Tissue
  - Article Title: Bark (plant tissue)
  - Article Title: Plant Growth

PowerKnowledge Life Science

- Human Body
  - Cells
    - [What Is a Cell?](#)
    - [Parts of a Cell](#)
    - [What's Going On in There](#)
    - [Plant Cells](#)
    - [What are Tissues?](#)
    - Etc.
- Classification
  - Classification of Living and Non-Living Things
    - [Living and Non-Living](#)
    - [Plants and Animals](#)
  - [Invertebrates](#)
  - [Single-Celled Organisms](#)
  - [Vertebrates](#)

## TrueFLIX

- Topic: Experiments
  - eBook Title: Experiments With Plants
    - Watch It
    - Read It

## **Resources for Students Reading At or Above Grade Level**

### Britannica School: Middle

- Keyword Search: Living Things
  - Article Title: Living Things
    - Cells form Living Things
    - Multicellular Organisms
    - Animals
    - Living Things are Specialized
- Keyword Search: Cell
  - Article Title: Cell (biology)
- Keyword Search: Single Cell
  - Article Title: Plankton
  - Article Title: Red Tide
  - Article Title: Diatom
  - Article Title: Yeast
- Keyword Search: Multicellular
  - Article Title: Sponges
- Keyword Search: Plant
  - Article Title: Plant (biology)
    - What Distinguishes Plants from Other Living Things?
    - Parts of Plants
    - Plant Ecology
- Keyword Search: Osmosis
  - Article Title: Osmosis
  - Article Title: Amoeba
- Keyword Search: Diffusion
  - Article Title: Cell

- Cell Membrane
- Keyword Search: tissue
  - Article Title: Tissue (biology)
    - Plant Tissue
    - Animal Tissue
- Keyword Search: Organ
  - Article Title: Organ (biology)

### ScienceFLIX

- Topic: Cells
  - Watch It
  - Read It
  - Dive Deeper
    - Sorting Out the Cells
      - Prokaryotic or Eukaryotic?
      - Animal Cell or Plant Cell?
    - Inner Workings
      - Movement of Substances Into and Out of Cells
  - Explore More
    - Inner Workings
      - Diffusion
      - Osmosis
- Topic: Animal Kingdom
  - Watch It
  - Read It
  - Dive Deeper
  - Explore More
- Topic: Plant Kingdom
  - Watch It
  - Read It
  - Dive Deeper
  - Explore More

### TrueFLIX

- Topic: Experiments
  - eBook Title: Experiments with Plants

- Explore More
  - Plant Science
    - Osmosis
    - Plant Growth and Processes
    - Chlorophyll
    - Plant Reproduction

## Science In Context

- Advanced Search: Cell (Basic & Intermediate Content selected)
  - Reference
    - [Cell Theory](#) (World of Anatomy and Physiology, 2007)
    - [Cells](#) (World of Scientific Discovery, 2010)
    - [Cell Structure](#) (World of Anatomy and Physiology, updated 2014)
    - [Cell](#) (ULX Complete Life Science Resource, 2009)
  - Experiments
    - [Cells](#) (Experiment Central: Understanding Scientific Principles Through Projects, 2010)
    - [Eukaryote](#) (UXL Encyclopedia of Science, 2015)
- Advanced Search: Organisms OR “Unicellular Organisms”
  - Reference
    - [Prokaryote](#) (UXL Encyclopedia of Science, 2015)
    - [Amoeba](#) (UXL Complete Life Science Resource, 2009)
    - [Bacteria](#) (UXL Complete Life Science Resource, 2009)
    - [Organism](#) (UXL Complete Life Science Resource, 2009)
- Advanced Search: Plant
  - Reference
    - [Diffusion](#) (UXL Complete Life Science Resource, 2009)
    - [Plant Anatomy](#) (UXL Complete Life Science Resource, 2009)
    - [Plasma Membrane](#) (UXL Complete Life Science Resource, 2009)
    - [Leaf](#) (UXL Complete Life Science Resource, 2009)
    - [Anatomy of Plants](#) (Biology, 2016)
    - [Chloroplast](#) (Biology, 2016)

- [Osmosis](#) (UXL Encyclopedia of Science, 2015)
- [Osmosis](#) (UXL Complete Life Science Resource, 2009)
- [Membrane](#) (UXL Complete Life Science Resource, 2009)
- [Osmoregulation](#) (Biology, 2016)

#### Crash Course Videos

- [Eukaryopolis - The City of Animal Cells: Crash Course Biology #4](#)
- [In Da Club - Membranes & Transport: Crash Course Biology #5](#)
- [Plant Cells: Crash Course Biology #6](#)
- [Tissues, Part 1: Crash Course Anatomy & Physiology #2](#)

SLO 3: *Interpret the healthy function of human body systems, and illustrate ways the body reacts to internal and external stimuli*

- *describe, in general terms, body systems for respiration, circulation, digestion, excretion and sensory awareness (e.g., describe how blood is circulated throughout the body to carry oxygen and nutrients to the body's various tissues and organs)*
- *describe, in general terms, the role of individual organs and tissues in supporting the healthy functioning of the human body (e.g., the role of lungs in exchanging oxygen and carbon dioxide, the role of bronchia in providing a passageway for air)*
- *describe ways in which various types of cells contribute to the healthy functioning of the human body (e.g., describe the roles of individual cells in nerves, muscle, blood, skin and bone)*
- *describe changes in body functions in response to changing conditions (e.g., changes in heart rate in response to exercise, change in metabolism in response to lower temperature, reflex responses to stimuli)*

#### **Resources for Students Reading Below Grade Level**

Britannica School: Elementary

- Keyword Search: Human Body
  - Article Title: Human Body
- Keyword Search: Respiration

- Article Title: Respiration
- Keyword Search: Respiratory
  - Article Title: Respiratory System
  - Article Title: Lungs
- Keyword Search: Circulatory / circulation
  - Article Title: Circulatory System
  - Article Title: Blood Vessels
- Keyword Search: Digestive
  - Article Title: Digestive System
  - Article Title: Intestines
- Keyword Search: Sensory
  - Article Title: Senses
  - Nerves
- Keyword Search: Metabolism
  - Article Title: Metabolism
  - Article Title: Endocrine Glands

#### PowerKnowledge Life Science

- Human Body
  - Your Body Systems
    - [Circulatory System](#)
    - [Digestive System](#)
    - [Nervous System](#)
    - [Respiratory System](#)
  - Your Body Parts
    - [Brain](#)
    - [Ears](#)
    - [Eyes](#)
    - [Heart](#)
    - [Kidneys](#)
    - [Lungs](#)
    - [Nose](#)
    - [Skin](#)



## TrueFLIX

- Topic: Human Body
  - eBook Title: Circulatory System
    - Watch It
    - Read It
- Topic: Human Body
  - eBook Title: Digestive System
    - Watch It
    - Read It
- Topic: Human Body
  - eBook Title: Nervous System
    - Watch It
    - Read It
- Topic: Human Body
  - eBook Title: Respiratory System
    - Watch It
    - Read It

## **Resources for Students Reading At or Above Grade Level**

### Britannica School: Middle

- Keyword Search: System
  - Article Title: Human Anatomy
    - Circulatory System
    - Digestive System
    - Respiratory System
    - Urinary (Excretory) System
    - Nervous System
  - Article Title: Circulatory System
  - Article Title: Urinary System
  - Article Title: Digestive System
  - Article Title: Nervous System
  - Article Title: Respiratory System
- Keyword Search: Organ
  - Article Title: Organ (biology)

- Plant Organs
  - Animal Organs
  - Organ Systems
- Keyword Search: Blood
  - Article Title: Blood (biochemistry)
    - Composition of Blood
      - Red Cells
      - White Cells
- Keyword Search: Skin
  - Article Title: Skin
- Keyword Search: Nerve
  - Article Title: Animal
    - Animals Move Around and Sense Surroundings
    - How Animals Sense Their Surroundings
- Keyword Search: Metabolism
  - Article Title: Metabolism
- Keyword Search: Reflex
  - Article Title: Reflex
- Keyword Search: Heart Rate
  - Article Title: Nervous System

## ScienceFLIX

- Topic: Systems of the Body
  - Watch It
  - Read It
  - Dive Deeper
    - Systems and Structure
      - Structure of the Body
      - Human Body Systems (Interactive Media)
    - The Essential Cores
      - The Brain
      - The Heart
  - Explore More
    - Systems and Structure
      - Cell, Tissue, and Organ

- Circulatory System
- Human Reproduction and Birth
- Immune System
- Lymphatic System
- Skeletal System
- The Bones of the Body
- The Brain and
- The Endocrine System
- The Muscular System
- The Respiratory System
- Search Term: Heart
  - Article Title: Heart and Circulatory System
    - The Heart's Cellular Structure
- Search Term: "Nerve Cells"
  - Article Title: The Brain and Nervous System
    - Nerve Cells
- Search Term: "Skin Cells"
  - Article Title: The Skin
- Search Term: "Nerve Cells"
  - Article Title: The Brain and Nervous System
    - Nerve Cells
- Search Term: "External Stimuli"
  - Article Title: Smell, Taste, and Touch
- Search Term: "metabolism"
  - Article Title: Body Temperature
- Topic: Animal Behavior
  - Explore More
    - Learning and Behavior
      - Reflex

## TrueFLIX

- Topic: Human Body
  - eBook Title: Circulatory System
    - Explore More
      - Blood
      - Blood and Lymphatic System

- Exercise and Fitness
  - The Heart
  - Lungs
  - Pulse
  - Charts and Tables
    - Systems of the Human Body
  - Artwork
    - Path of Blood
    - Structures of the Heart
- eBook Title: Digestive System
  - Explore More
    - Parts of the Digestive System
      - Alimentary Canal
      - Duodenum
      - Liver
      - Pharynx
      - Stomach
    - Charts and Tables
      - Digestive Secretions and their Functions
    - Artwork
      - Digestive System
      - Structures of the Stomach
      - Wall of the Small Intestine
- eBook Title: Nervous System
  - Explore More
    - Balance
    - The Brain
    - Memory and Learning
    - Neuron
    - Pain
    - Senses
    - Smell and Taste
    - Touch
    - Vision and Hearing
  - Artwork
    - How Nerve Messages Travel

- Human Brain
  - Nervous System
  - Neuron
  - Spinal Cord
- eBook Title: Respiratory System
  - Explore More
    - Parts of the Respiratory System
      - Bronchial Tube
      - Nose
      - Lungs
      - Pharynx
      - Trachea

#### Science In Context

- Advanced Search: Structure of living things (Basic & Intermediate Content selected)
  - Reference
    - [Anatomy](#) (World of Anatomy and Physiology, 2007)
- Advanced Search: Human Body
  - Topic Overview
    - [Anatomy](#) (Gale Encyclopedia of Science, 2014)
  - Reference
    - [Hearing](#) (UXL Complete Life Science Resource, 2009)
    - [Heart](#) (UXL Complete Life Science Resource, 2009)
    - [Smell](#) (UXL Complete Life Science Resource, 2009)
    - [Tissue](#) (UXL Complete Life Science Resource, 2009)
    - [Organs and Organ Systems](#) (World of Forensic Science, 2016)
  - Images
    - ([39 of them](#))
- Advanced Search: Respiratory System
  - Topic Overview
    - [Respiratory System](#) (Gale Encyclopedia of Science, 2014)
    - [Respiratory System](#) (UXL Complete Life Science Resource, 2009)
- Advanced Search: Senses

- Topic Overview
  - [Sense Organs](#) (Animal Sciences, updated 2014)
- Reference
  - [Perception](#) (UXL Encyclopedia of Science, 2015)
  - [Smell](#) (UXL Encyclopedia of Science, 2015)
  - [Taste](#) (UXL Encyclopedia of Science, 2015)
  - [Touch](#) (UXL Encyclopedia of Science, 2015)
  - [Hearing](#) (UXL Complete Life Science, 2009)
  - [Sense Organ](#) (UXL Complete Life Science, 2009)
  - [Sight](#) (UXL Complete Life Science Resource, 2009)
  - [Stimulus and Response](#) (UXL Complete Life Science Resource, 2010)
- Advanced Search: Digestive System
  - Topic Overview
    - [Digestive System](#) (Gale Encyclopedia of Science, updated 2017)
  - Reference
    - [The Digestive System](#) (Body by Design, updated 2013)
    - [Gastrointestinal Tract](#) (World of Anatomy and Physiology, 2007)
    - [Digestive System](#) (UXL Encyclopedia of Science, 2015)
  - Videos
    - [\(There are 5\)](#)
- Advanced Search: Circulatory System
  - Reference
    - [Circulatory System](#) (UXL Encyclopedia of Science, 2015)
    - [Circulatory System](#) (UXL Complete Life Science Resource, 2009)
    - [Circulatory System](#) (World of Biology, 2011)
  - Videos
    - [\(There are 6\)](#)
- Advanced Search: “Excretory System”
  - Reference
    - [Excretory System](#) (UXL Complete Life Science Resource, 2009)
    - [Excretory System](#) (UXL Encyclopedia of Science, 2015)

- Video
  - [What is Excretion?](#) (Exploring the Digestive and Excretory Systems, 2016)
- Advanced Search: "Organ Systems" or Cell
  - Reference
    - [Organs and Organ Systems](#) (World of Anatomy and Physiology, 2007)
    - [Tissue](#) (Biology, 2016)
    - [Hierarchy of Structural Organization](#) (World of Anatomy and Physiology, 2007)
- Advanced Search: Blood Cell
  - Reference
    - [Blood](#) (UXL Encyclopedia of Science, 2015)
    - [Blood](#) (Biology, 2016)
- Advanced Search: Nerve Cell
  - Reference
    - [Nervous System](#) (UXL Encyclopedia of Science, 2015)
    - [Neuron](#) (UXL Science, 2008)
- Advanced Search: "Metabolism" and "Temperature"
  - Reference
    - [Hibernation](#) (UXL Encyclopedia of Science, 2015)
    - [Cryobiology](#) (UXL Encyclopedia of Science, 2015)
    - [Extreme Communities](#) (Biology, 2016)
- Advanced Search: "Heart Rate" and Exercise
  - Reference
    - [Stress Test](#) (World of Health, 2010)
- Advanced Search: Reflex
  - Reference
    - [Reflex](#) (World of Biology, 2006)
    - [Nervous System](#) (World of Scientific Discovery, 2007)

## Crash Course Videos

- [Blood Vessels, Part 1 - Form and Function: Crash Course A&P #27](#)
- [Blood Vessels, Part 2 - Blood Pressure Kills: Crash Course A&P #28](#)
- [The Digestive System: Crash Course Biology #28](#)
- [Digestive System, Part 1: The 30 Foot Tube Crash Course A&P #33](#)
- [Digestive System, Part 2: From Mouth to Stomach Crash Course A&P #34](#)
- [Digestive System Part 3: Intestines and Accessory Organs Crash Course A&P #35](#)
- [The Excretory System: From your Heart to the Toilet – Crash Course Biology #29](#)
- [Hearing & Balance: Crash Course A&P #17 Sensory Systems](#)
- [Heart Part 1 - Under Pressure: Crash Course A&P #25](#)
- [Heart, Part 2 - Heart Throbs: Crash Course A&P #26](#)
- [Respiratory System, Part 1: Crash Course A&P #31 Bulk Flow vs Simple Diffusion](#)
- [Respiratory System, Part 2: Crash Course A&P #32 Gas Exchange](#)
- [Taste & Smell: Crash Course A&P #16 Sensory Systems](#)
- [Urinary System Part 1 - The Kidneys!: Crash Course A&P #38](#)
- [Urinary System Part 2 - Urine!: Crash Course A&P #39](#)
- [Vision: Crash Course Anatomy & Physiology #18 Sensory Systems](#)

SLO 4: *Describe areas of scientific investigation leading to new knowledge about body systems and to new medical applications*

- *identify examples of research into functions and dysfunctions of human cells, organs or body systems*
- *describe ways in which research about cells, organs and systems has brought about improvements in human health and nutrition (e.g., development of medicines; immunization procedures; diets based on the needs of organs, such as the heart)*
- *investigate and describe factors that affect the healthy function of the human respiratory, circulatory and digestive systems (e.g., investigate the effect of illness, aging or air quality on the function of the respiratory system)*



## **Resources for Students Reading Below Grade Level**

Britannica School: Elementary

- Keyword Search: Disease
  - Article Title: Human Disease (human)
  - Etc. – numerous diseases listed
- Keyword Search: Medicine
  - Medicine (science)
  - Traditional Medicine
  - Technology and Medicine
  - Scientists At a Glance
    - Scientists by Subject
      - Medicine
- Keyword Search: Nutrition
  - Article Title: Food and Nutrition
  - Article Title: Healthy Living
- Keyword Search: Respiratory
  - Article Title: Cough
  - Article Title: Croup
  - Article Title: Influenza
  - Article Title: Whooping Cough

PowerKnowledge Life Science

- Human Body
  - Your Body Systems
    - [Circulatory System](#)
      - [Problems of the Heart](#)
    - [Digestive System](#)
      - [Digestive Trouble](#)
    - [Nervous System](#)
      - [Problems of the Nervous System](#)
    - [Respiratory System](#)
      - [Respiratory Trouble](#)

## TrueFLIX

- Topic: Human Body
  - eBook Title: Circulatory System
    - Watch It
    - Read It
- Topic: Human Body
  - eBook Title: Digestive System
    - Watch It
    - Read It
- Topic: Human Body
  - eBook Title: Nervous System
    - Watch It
    - Read It
- Topic: Human Body
  - eBook Title: Respiratory System
    - Watch It
    - Read It

## **Resources for Students Reading At or Above Grade Level**

### Britannica School: Middle

- Keyword Search: Disease
  - Article Title: Human Disease
    - Cardiovascular Diseases
    - Respiratory Diseases
    - Nervous System Diseases
    - Kidney and Genital Diseases
    - Research Against Disease
  - Related Resources:
    - Articles:
      - Ulcers
      - Diverticulum
      - Blood Poisoning
      - Cancer
      - Cystic Fibrosis

- Asthma
  - Etc...
- Keyword Search: Medicine
  - Article Title: Medicine
    - History of Medicine in Brief
- Keyword Search: Dysfunction
  - Article Title: Psychosomatic Disorder
- Keyword Search: Nutrition
  - Article Title: Food and Nutrition
  - Article Title: Sports Medicine
- Keyword Search: Ageing
  - Article Title: Ageing (life process)
- Keyword Search: Medicine
  - Article Title: Medicine
  - Article Title: Diagnosis
  - Article Title: Industrial Medicine
  - Article Title: Drugs
- Keyword Search: Pollution
  - Article Title: Environmental Pollution
    - Air Pollution
- Keyword Search: Health
  - Article Title: Health
  - Article Title: Public Health

## ScienceFLIX

- Topic: Systems of the Body
  - Explore More
    - Systems of the Body
      - Disorders of the Body
      - Genetics
      - Medicine
      - Health
- Topic: Disease
  - Watch It
  - Read It
  - Dive Deeper

- Disorders of the Body
  - Diagnosis & Treatment
- Explore More
  - Disease
  - Disorders of the Body
  - Diagnosis and Treatment
- Search Term: "Bone"
  - Article Title: Artificial Body Parts

## TrueFLIX

- Topic: Human Body
  - eBook Title: Circulatory System
    - Explore More
      - Blood
        - Disorders of the Blood
      - Blood and the Lymphatic System
        - Blood Diseases
      - Lungs
        - Disorders of the Lungs
  - eBook Title: Digestive System
    - Explore More
      - Disorders of the Digestive System
        - Crohn Disease
        - Dysentery
        - Gastritis
        - Nausea
        - Pancreatitis
  - eBook Title: Respiratory System
    - Explore More
      - Respiratory System Conditions
        - Allergies
        - Asphyxia
        - Asthma
        - Influenza
        - Tuberculosis

## Science In Context

- Advanced Search: Cells (biology) (Basic & Intermediate Content selected)
  - News
    - [A Medical Mystery: Diseases in Decline](#) (New York Times, July 10, 2016)
    - [How Exercise Changes Cells](#) (New York Times, July 31, 2013)
- Advanced Search: "Respiratory System" or "Respiratory Disease"
  - Reference
    - [Pneumonia](#) (Gale Encyclopedia of Medicine, 2015)
    - [Black Lung Disease](#) (Gale Encyclopedia of Medicine, 2015)
    - [Respiratory Diseases](#) (Environmental Encyclopedia, updated 2017)
  - News
    - [A Common Lung Condition that Often Overlaps with Heart Disease](#) (Harvard Heart Letter, October 2015)
    - [Cutting Through India's Smog](#) (The New York Times, Feb 23, 2015)
- Advanced search: "Circulatory System or "Circulatory Diseases" or "Heart Disease"
  - Featured Content
    - [Congestive Heart Failure](#) (Gale Encyclopedia of Medicine, 2015)
    - [Heart Attack](#) (Gale Encyclopedia of Medicine, 2015)
  - Reference
    - [Coronary Artery Disease](#) (Gale Encyclopedia of Medicine, 2015)
    - [Arteriosclerosis](#) (World of Scientific Discovery, 2007)
    - [Cardiac Disease](#) (World of Anatomy and Physiology, 2007)
- Advanced Search: Stroke OR Hypertension
  - Reference
    - [Stroke](#) (World of Health, 2012)
    - [Hypertension](#) (UXL Science, 2008)
    - [Cardiovascular Diseases](#) (Biology, 2016)
- Advanced Search: "Digestive Diseases" OR "Digestive System"
  - Reference

- [Crohn's Disease](#) (Gale Encyclopedia of Genetic Disorders, 2016)
- [Ulcers \(digestive\)](#) (World of Health, 2007)
- [The Digestive System](#) (Body by Design, updated 2013)
  - Ailments – What Can Go Wrong with the Digestive System
- Advanced Search: Medical Research
  - Reference
    - [Regenerative Medicine](#) (Biology, 2016)
    - [Nutrition](#) (Gale Encyclopedia of Medicine, 2015)
    - [Carcinogen](#) (World of Scientific Discovery, 2008)
    - [Tissue Engineering](#) (Biotechnology: Changing Life Through Science, updated 2014)

#### Crash Course Videos

- [Circulatory & Respiratory Systems – Crash Course Biology #27](#)
- [The Digestive System: Crash Course Biology #28](#)