



Biology 30S

GRADE 11 BIOLOGY

WONDER • REASON • REPEAT



ROOM 112

COURSE OUTLINE 2026 – 2027

CONTACT INFORMATION



Kristi Ann Aston



204-729-3900
(main office)



aston.kristiann@bsd.ca



Room 112

COURSE DESCRIPTION

Wellness and homeostasis are the two main themes that guide our study of human anatomy and physiology. Through investigations, dissections, specimen pinning, and other hands-on learning, we will explore six human body systems, how their structures are suited to their functions, and how they work together to maintain a stable internal environment.

Throughout the course, you will connect what you learn about the human body to health, wellness, and everyday life.

GRADING

80%

COURSE WORK

Major & Minor Evidence of Learning
Tests • Investigations • Projects
Dissections • Specimen Pinning
Check-ins • Applications • etc.

20%

FINAL EXAM

Cumulative final examination

WHAT TO BRING EVERY DAY



Pencil / Pen



Pencil
Crayons



Highlighter



Whiteboard
Marker



Binder /
Notebook



RESPECT

Respect your learning
and the learning
of others.



SAFETY

Follow all safety
instructions. Use
equipment, materials
and specimens
responsibly.



INTEGRITY

Your work should
reflect your own
thinking and learning.
Use AI only when
permitted.



PHONES / SMART DEVICES
STAY IN YOUR LOCKER.



Bags, hats & jackets
stay in your locker.



ATTENDANCE

Parent/guardian reports absences
to the school: 204-729-3915 or
204-729-3900 (press 1).
Provide student name, date & reason.

Missed class? Check Teams →
missed-class materials → classmate → Mrs. Aston.



EXTRA HELP

Room 112
Most days at lunch
or by arrangement.



IMPORTANT INFO

- Deadlines & Late Work
- Missed Class
- Communication
- Check Teams regularly.

Wonder • Reason • Repeat

COURSE UNITS

Unit order, content, and pacing may be adjusted based on student learning needs, school events, and available instructional time.



1 Nervous System

~ 2 weeks

- Structure and function of the nervous system
- Neurons and nerve impulses
- Synapses and reflexes
- Sensory and motor systems
- Brain basics and brain structures



2 Cardiovascular System

~ 3 weeks

- Heart structure and function
- Blood and circulation
- Blood pressure and heart health
- Blood types and blood donation
- Effects of lifestyle and environment



3 Respiratory System

~ 2 weeks

- Structure and function of the respiratory system
- Gas exchange
- Regulation of breathing
- Impacts on health and performance



4 Digestion & Nutrition

~ 3 weeks

- Structure and function of the digestive system
- Nutrient digestion and absorption
- Role of nutrition in health
- Food choices and their impact



5 Excretory System

~ 2½ weeks

- Structure and function of the urinary system
- Waste removal and fluid balance
- Regulation of water, salts and pH
- Factors that affect kidney health



6 Immune System

~ 2 weeks

- Components of the immune system
- Innate and adaptive immunity
- Disease, vaccination and prevention
- Factors that influence immune health

HOMEOSTASIS & WELLNESS — WOVEN THROUGHOUT THE COURSE

How does the body maintain stable internal conditions, and how do our choices and environment affect health and wellness?



HEALTH



LIFESTYLE



COMMUNITY



ENVIRONMENT