

BIOLOGY

AT HOME

- Research biology system terms and record definitions in Nature Sketch Journal.
- Daily: Draw and label the current body systems/structures.
- Place final drawing of system/structure in *Nature Sketch Journal* with the corresponding terms.

IN COMMUNITY

- Introduce the new research topic by asking the students what they already know about the topic, using five common topic questions from the Science Snippets available on CC Connected®, or sharing information from the Classical Acts & Facts® Science Cards.
- Model drawing the new system/structure on the board by using OiLS, indentifying familiar shapes, and incorporating the terms.
- After two weeks of practice, provide students with the opportunity to draw the system/structure from memory on a blank sheet of paper.
- · Allow students to share the definitions they have researched.
- Discuss systems/structures with students using the five common topics or a topic wheel as time allows.

Tailoring

The focus of the research seminar is for students to practice researching using source documents that are below their reading level, notate sources used, write a bibliography and short report, and present their research in class.

When families have time for more:

- Add research terms or items to be labeled on the anatomy drawings.
- Require more in-depth research for each term.
- Read from the appropriate Science Snippet on CC Connected®, Challenge Tier > At Home Sharing Center.

When families have a busy week:

- Reduce the number of terms to be researched.
- Reduce items to be labeled on the anatomy drawings.
- Label a blackline drawing of the anatomy system instead of drawing and labeling the system.

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BEGIN THE CONVERSATION

5 COMMON TOPICS



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ANATOMY TERMS

Respiratory System

alveoli bronchi bronchiole diaphragm epiglottis larynx lung mouth nasal passage nostrils pharynx pleura trachea

Digestive system

anus
appendix
esophagus
gallbladder
large intestine
liver
mouth
pancreas
rectum
salivary glands
small intestine
stomach

Heart

aorta
bicuspid valve
inferior vena cava
left atrium
left pulmonary artery
left pulmonary vein
left ventricle
right atrium
right pulmonary artery
right pulmonary vein
right ventricle
semilunar valves
septum
superior vena cava
tricuspid valve

Skin

arrector pili muscle capillary dermis epidermis fat cells hair hair follicle nerve ending pore subcutaneous tissue sweat gland

Skeleton

carpals clavicle cranium femur fibula humerus mandible metacarpals metatarsals patella pelvis phalanges* radius ribs scapula skull sternum tarsals tibia ulna vertebra

vertebral column

^{*&}quot;Phalanges" is labeled twice, once for the fingers and once for the toes.

Brain

cerebellum
cerebrum
corpus callosum
frontal lobe
hypothalamus
medulla oblongata
occipital lobe
parietal lobe
pituitary gland
pons
spinal cord
temporal lobe
thalamus

Neuron

axon*
cell body
cytoplasm
dendrites
myelin sheath
node of Ranvier
nucleus
Schwann cell
Schwann cell nucleus
synaptic knob*
terminal branches

Neuromuscular Junction

acetylcholine sacs axon* cleft muscle fiber synaptic knob*

Eye

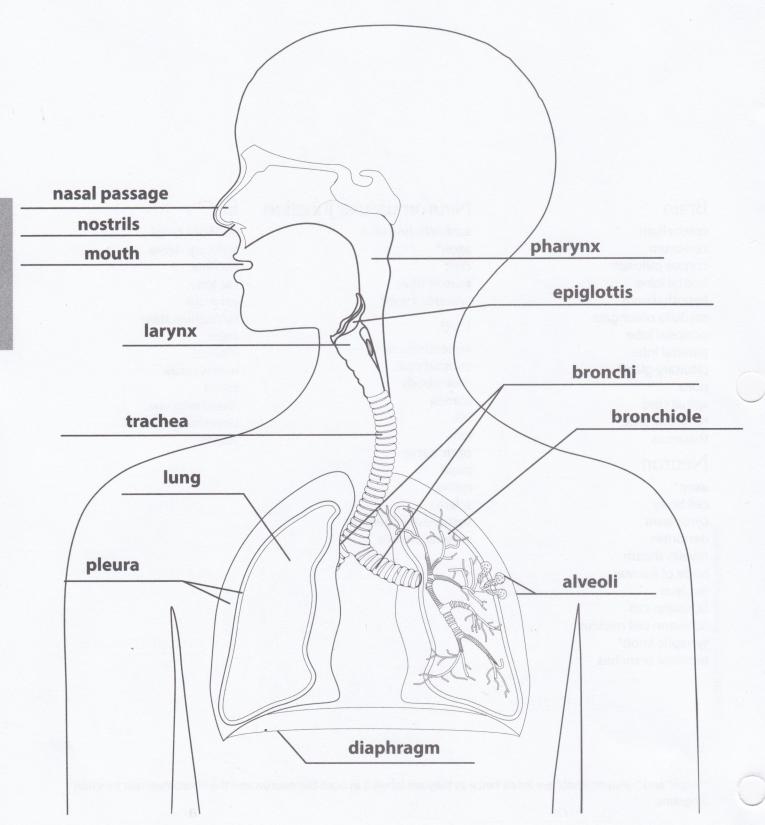
aqueous humor
choroid coat
ciliary body
cornea
iris
lens
optic nerve
pupil
retina
sclera
suspensory ligament
vitreous humor

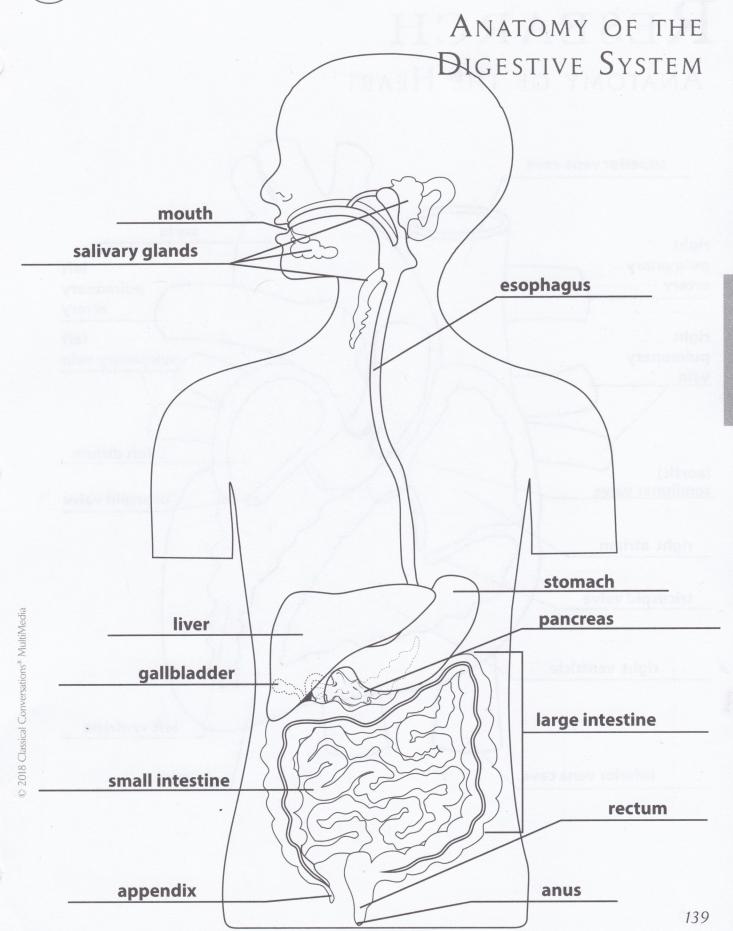
Ear

auditory canal
auditory nerve
cochlea
ear lobe
eardrum
Eustachian tube
incus
malleus
oval window
pinna
round window
semicircular canals
stapes

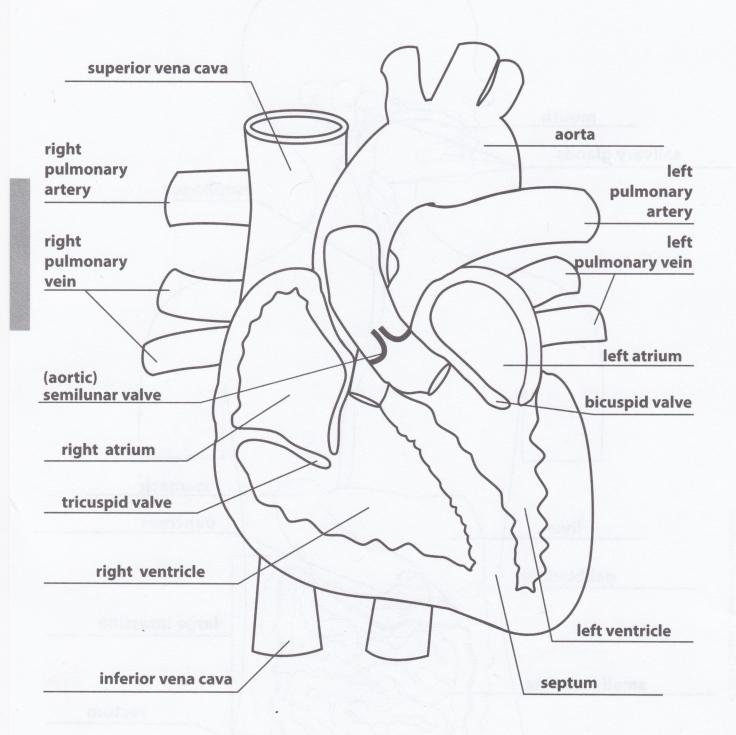
^{*&}quot;Axon" and "synaptic knob" are listed twice as they are labeled in both the neuron and the neuromuscular junction diagrams.

ANATOMY OF THE RESPIRATORY SYSTEM



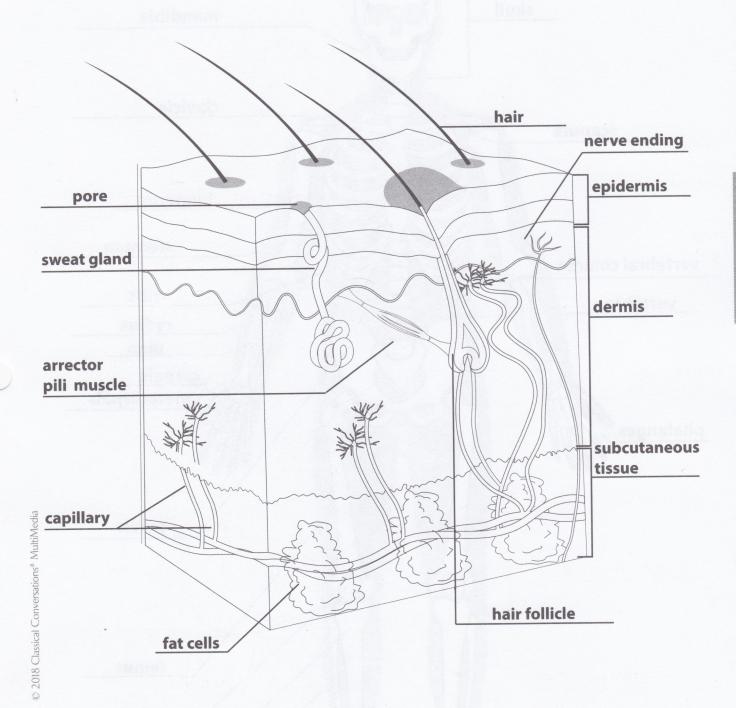


ANATOMY OF THE HEART

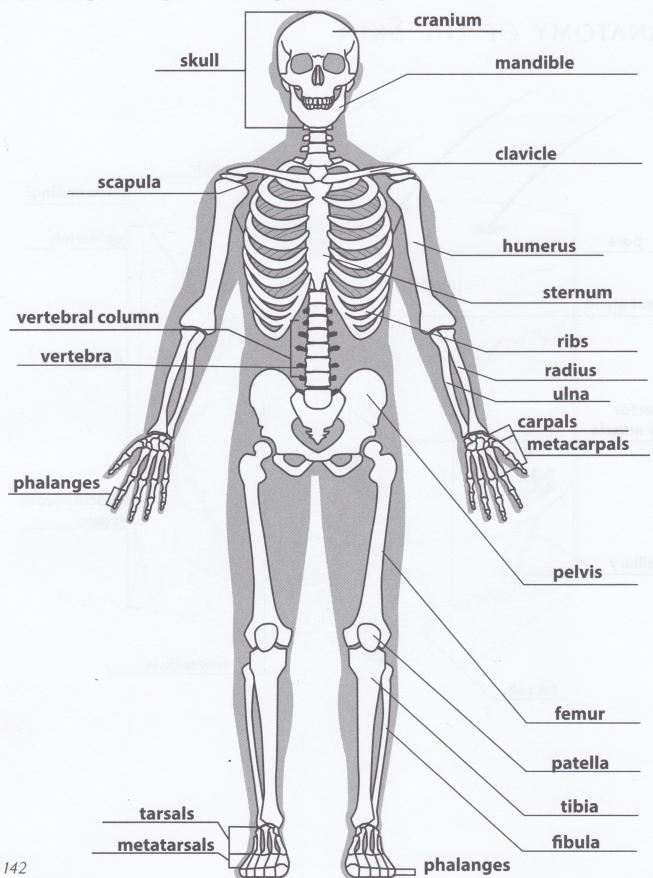




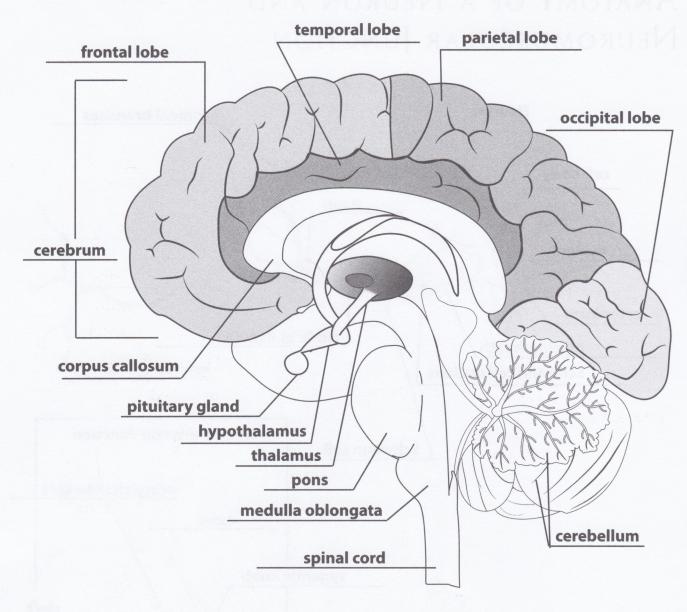
ANATOMY OF THE SKIN



ANATOMY OF THE SKELETON

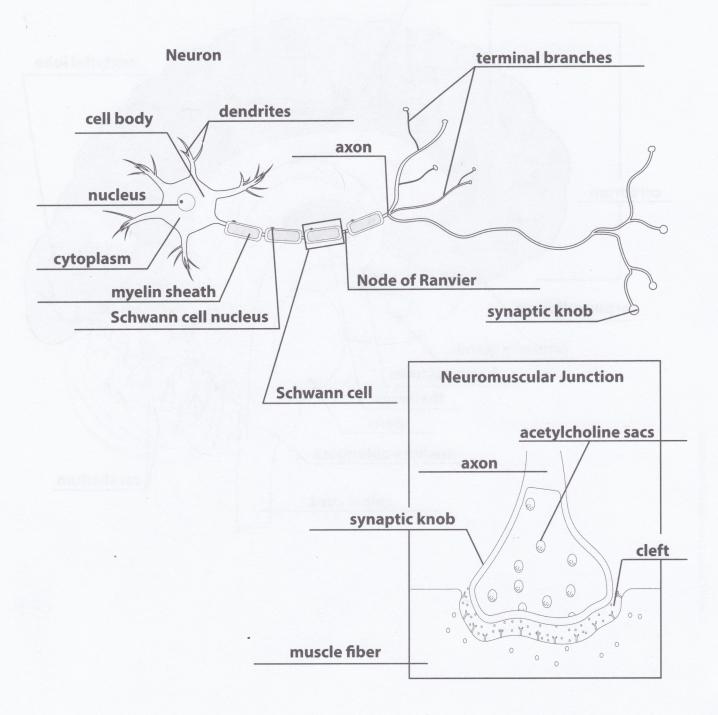


ANATOMY OF THE BRAIN

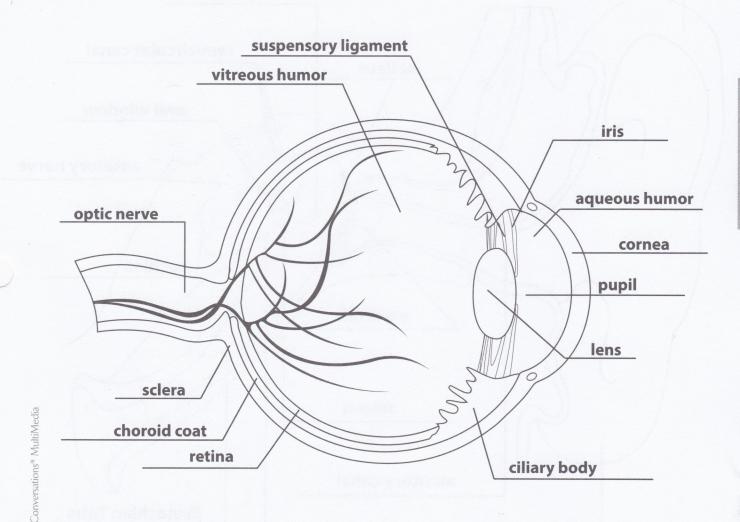




Anatomy of a Neuron and Neuromuscular Junction

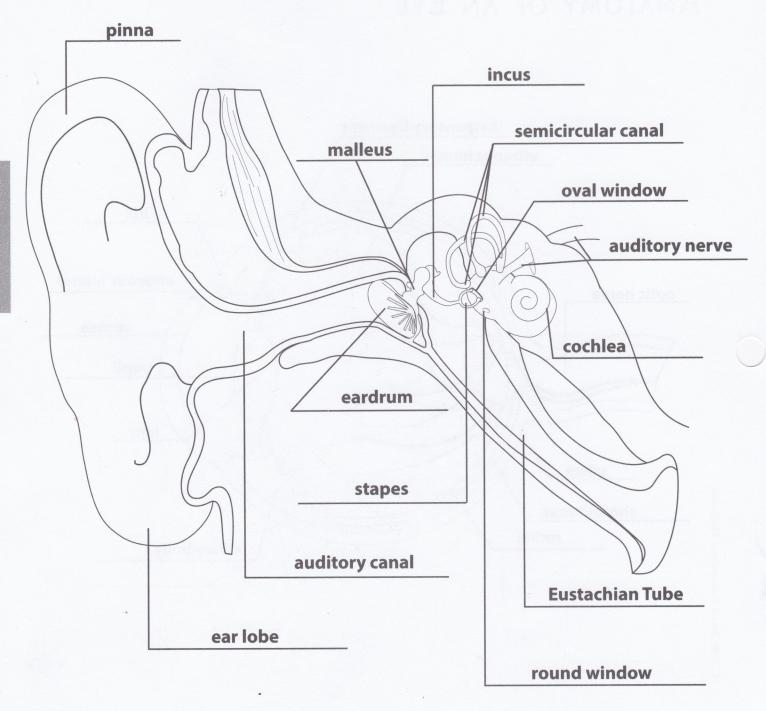


ANATOMY OF AN EYE

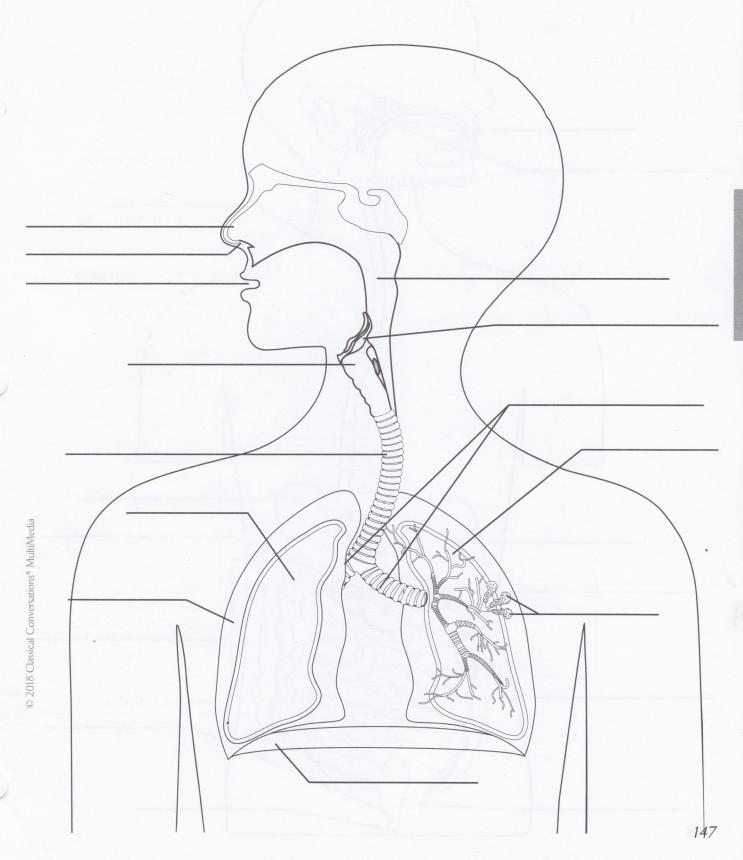




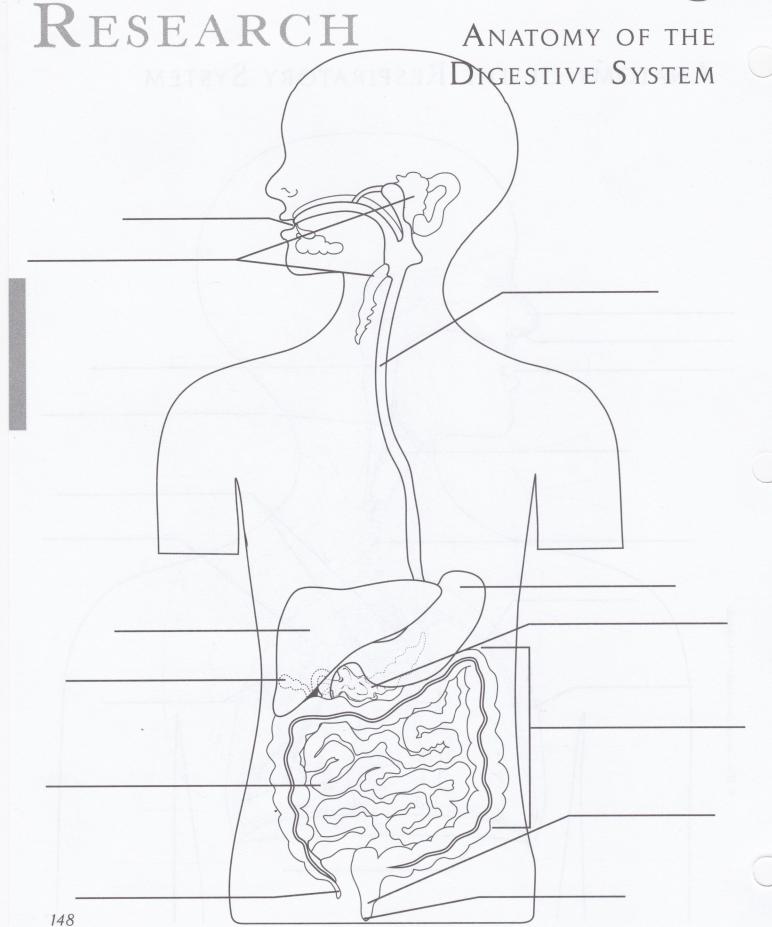
ANATOMY OF AN EAR



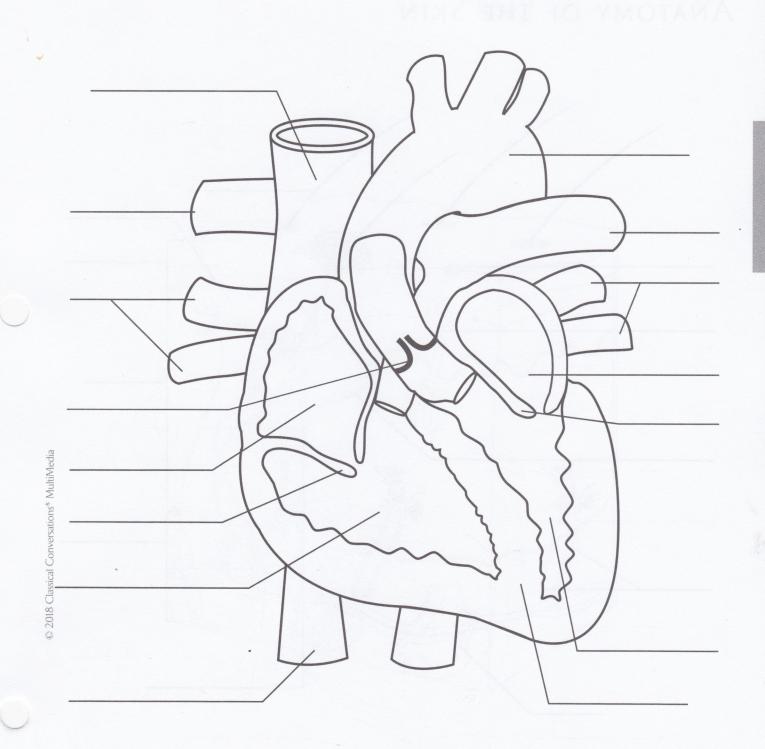
ANATOMY OF THE RESPIRATORY SYSTEM





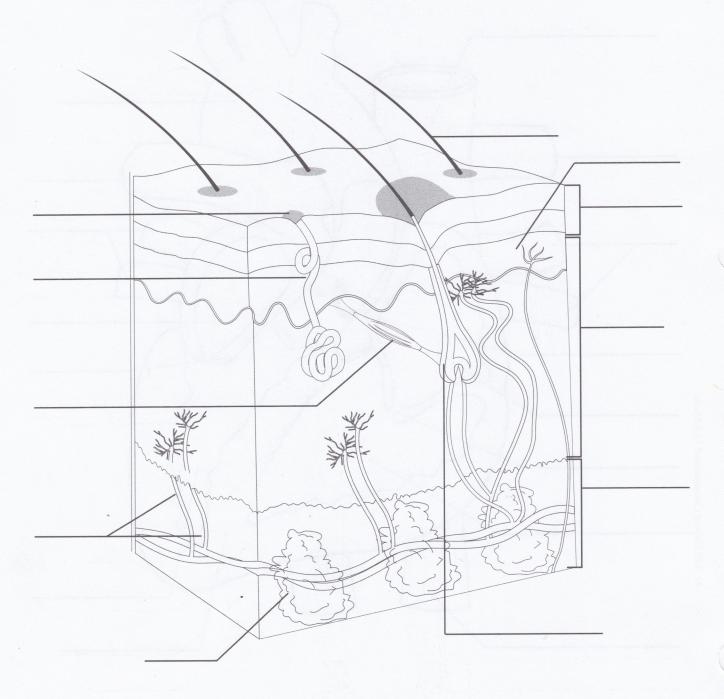


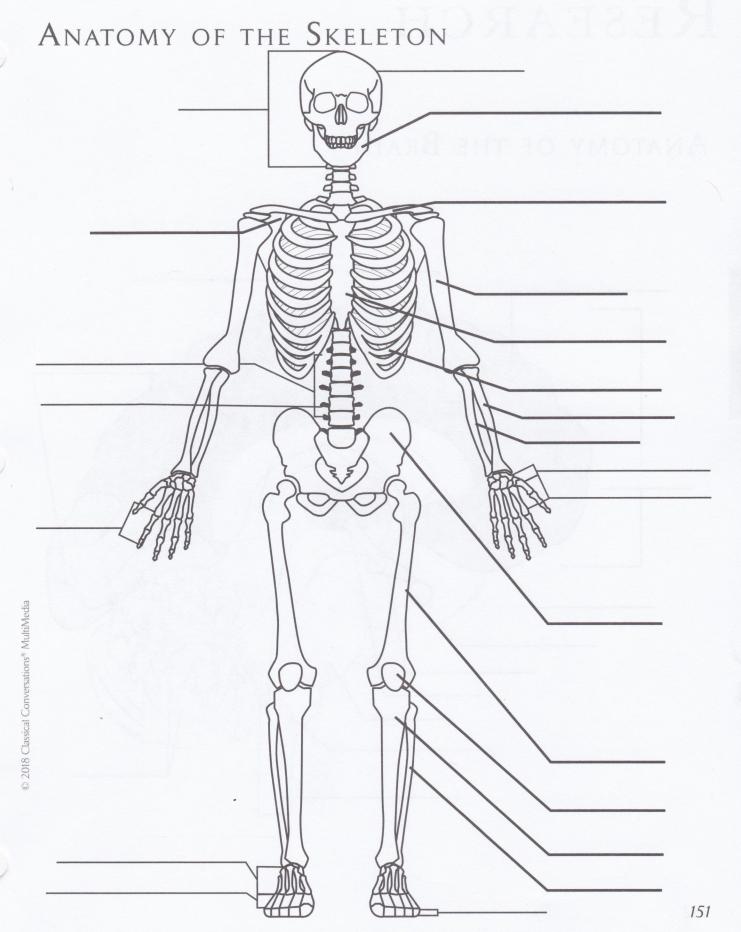
ANATOMY OF THE HEART



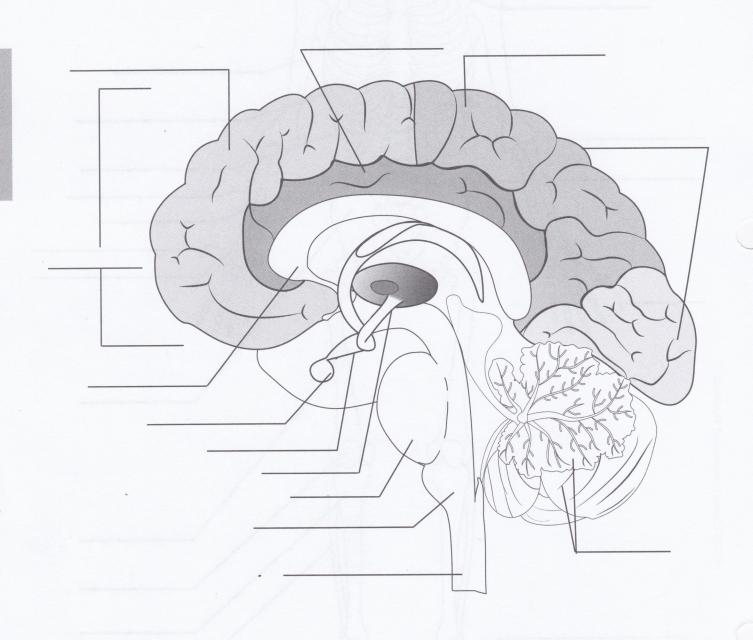


ANATOMY OF THE SKIN

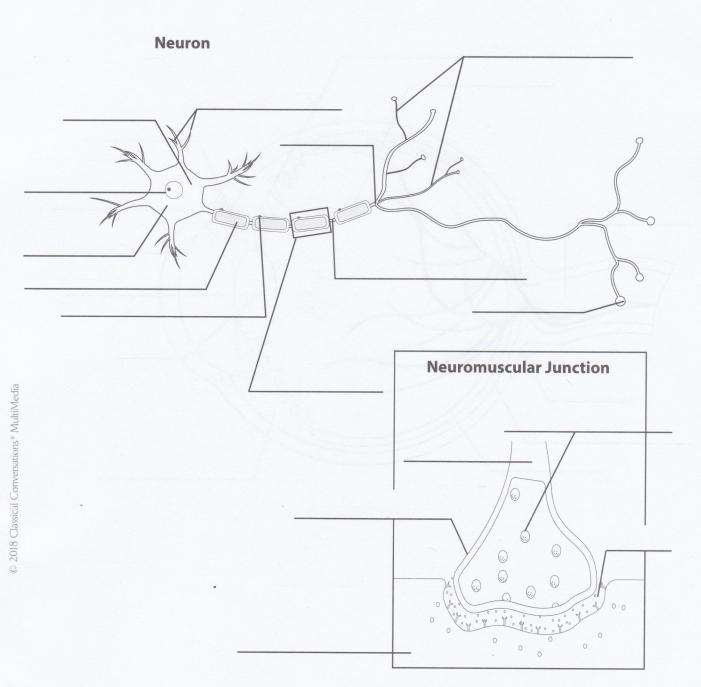




ANATOMY OF THE BRAIN

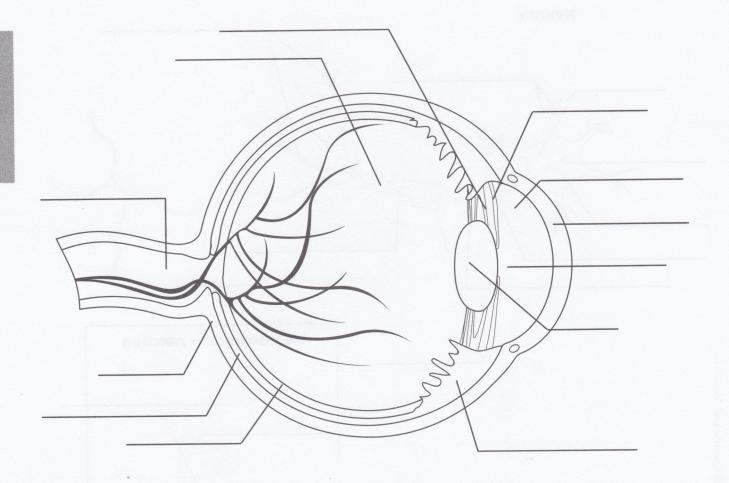


Anatomy of a Neuron and Neuromuscular Junction





ANATOMY OF AN EYE





ANATOMY OF AN EAR

