

Answer Key Included!

Body Systems Review

Take each of the following pieces of paper, cut out the 4x4 grid, and use it to label the main organs of each body system. (You may use the same organ more than once.)

1. I can name each of the body systems and tell what they do for the body.
 2. I can name each organ of each body system and tell its main function.
 3. I can describe how the body systems work together.

And label the main organs of each body system.

Body System	Function	Organs
Nervous	Send and receive messages around the body	Brain, nerves, spinal cord
Respiratory	Exchange gases, oxygen enters, waste leaves	Lungs, trachea, bronchi, diaphragm
Muscular	Produce movement	Muscles, tendons
Digestive	Break down food and absorb nutrients	Esophagus, stomach, small intestine, large intestine, rectum, anus
Urinary	Remove waste and keep body fluid balance	Kidneys, ureters, bladder, urethra
Integumentary	Protect body and control temperature	Skin, hair, nails
Circulatory	Transport blood and nutrients	Heart, blood vessels
Endocrine	Produce hormones	Pituitary, thyroid, adrenal, pancreas, ovaries, testes
Immune	Defend the body against disease	White blood cells, lymph nodes, spleen, thymus
Reproductive	Produce offspring	Ovaries, uterus, vagina, penis, testes

Organ Labels:

- Brain
- Heart
- Lungs
- Stomach
- Small Intestine
- Large Intestine
- Kidney
- Uterus
- Bladder
- Testis
- Thyroid
- Pituitary
- Adrenal
- Prostate
- Vagina
- Penis
- Spleen
- Thymus
- Lymph Node
- White Blood Cell

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Human Organ Systems Study Guide

RD Boyd



Human Organ Systems Study Guide:

Human Organ Systems Study Guide Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Human Organ Systems Study Guide**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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web what is direct proportion direct proportion is a type of proportionality relationship for direct proportion as one value increases so does the other value and conversely as one value decreases so does the other value the symbol $\propto$ represents a

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web directly proportional as one amount increases another amount increases at the same rate the symbol for directly proportional is $\propto$ don't confuse it with the symbol for infinity example you are paid 20 an hour how much you earn is directly proportional to how many hours you work work more hours get more pay in direct proportion

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the two general kinds of nuclear reactions are nuclear decay reactions and nuclear transmutation reactions in a nuclear decay reaction also called radioactive decay an unstable nucleus emits radiation and is transformed into the nucleus of one or more other elements

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transformations can occur as a result of nuclear decay of radioactive isotopes or neutron capture neither procedure requires a change in the atom s element an atom gets transmuted into an atom of a different element when the number of protons in it is changed

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nuclear chemistry is the subfield of chemistry dealing with radioactivity nuclear processes such as nuclear transmutation and nuclear properties it is the chemistry of radioactive elements such as the actinides radium and radon together with the chemistry associated with equipment such as nuclear reactors which are designed to perform

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unlike a normal chemical reaction that forms molecules nuclear reactions result in the transformation of one element into another this property of nuclear reactions is used in nuclear power plants to gather nuclear energy the three common types

of radiations are explained below

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a nuclear reactor consists of the following a nuclear fuel a fissionable isotope must be present in large enough quantities to sustain a controlled chain reaction the radioactive isotope is contained in tubes called fuel rods a moderator

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apr 3 2019 in order to understand the origin and character of individual radioactive emissions accompanying nuclear transformation processes we first need to answer three questions what is an unstable nucleus

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transmutation the changing of one chemical element into another transmutation involves a change in the nucleus or core of an atom and is therefore a nuclear reaction transformations may result from nuclear decay of radioactive isotopes or they can result from neutron capture

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in all accelerators the particles move in a vacuum to avoid collisions with gas molecules when neutrons are required for transmutation reactions they are usually obtained from radioactive decay reactions or from various nuclear reactions occurring in nuclear reactors

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nuclear reaction a nuclear reaction is a process in which two nuclei or a nucleus and an external subatomic particle collide to produce one or more new nuclides the nuclear reaction is a reaction that involves nucleoids the reactant nucleoid called the parent nucleoid usually transforms into a different nucleoid called the daughter

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nuclear transmutation is the conversion of one chemical element or an isotope into another chemical element 1 nuclear transmutation occurs in any process where the number of protons or neutrons in the nucleus of an atom is changed a transmutation can be achieved either by nuclear reactions in which an outside particle reacts with a nucleus

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web paediatrics calculation by body weight drug calculations for children include another important component which is the

body weight of the child the dosage depends on the weight and it needs to be calculated with the following formula
dose stock required stock strength volume weight $0.08 \text{ mg} \times 2 \text{ ml} = 0.16 \text{ mg}$
 $0.16 \text{ mg} \times 25 \text{ mg} = 4 \text{ mg}$

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web example a pediatrician orders a dose of 15 mg of a drug per kilogram of body weight 15 mg/kg 15 mg of drug 300 mg of drug should be given as the dose 20 kg weight $\times 1 \text{ kg} = 2$ calculate volume tablets solution using a standard pharmaceutical math calculation such as desired over have multiplied by quantity or ratio and proportion see

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web dec 3 2016 example 1 a child is prescribed erythromycin the recommended dosage is 40 mg/kg/day 4 doses daily if the child's weight is 15 kg calculate the size of a single dose 15 kg $\times 40 \text{ mg/kg/day} = 600 \text{ mg/day}$ then 600 mg/4 doses 150 mg dose calculating a single dose based on body weight example 2 a child is to be given ampicillin

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web 1g 1000mg 1mg 1000mcg therefore to convert grams to milligrams you multiply by 1000 milligrams to micrograms multiply by 1000 conversely to change from micrograms to milligrams divide by 1000 and milligrams to grams divide by 1000 thus to multiply by 1000 the decimal point must be moved 3 places to the right example

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web stage 1 using the formula below calculate the total required dosage based on given the body weight weight kg $\times$ dosage

ordered per kg y required dosage stage 2 apply the x q formula to calculate the actual amount of medication to be administered

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web most pediatric medications are dosed based on patient size mg/kg body surface area bsa all patient weights should be in kilograms kg not pounds lbs 1 kg = 2.2 lbs to convert lbs to kg divide by 2.2 20 lbs / 2.2 = 9.1 kg drug guides will usually list safe dosing as either mg/kg/day

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web pediatric dosage calculations general most drugs in children are dosed according to body weight mg/kg or body surface area bsa mg/m² care must be taken to properly convert body weight from pounds to kilograms 1 kg = 2.2 lb before calculating doses based on body weight

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web nurses must perform several tasks during drug calculations such as reading drug labels for pertinent information

determining what information is needed to set up the math calculation performing the math calculations and then critically evaluating the answer to determine if it is within a safe dosage range for that specific patient