



Arithmetic Skills

- ☐ Basic addition and subtraction
- ☐ Basic multiplication
- ☐ Basic division
- ☐ Changing fractions to decimals
- ☐ Changing decimals to fractions
- ☐ Place value
- ☐ Roman numerals
- ☐ Multivariable fractions
- ☐ Multiplying fractions
- ☐ Dividing fractions
- ☐ Ratios and proportions
- ☐ Calculating percentages
- ☐ Converting percentages to decimals

Algebra

- ☐ Commutative rule of addition
- ☐ Commutative rule of multiplication
- ☐ Associative rule of addition
- ☐ Associative rule of multiplication
- ☐ Distributive rule of multiplication
- ☐ Algebraic formulas

$$(a + b)^2 = a^2 + 2ab + b^2$$

$$(a - b)^2 = a^2 - 2ab + b^2$$

$$a^2 + b^2 = (a + b)^2 - 2ab$$

$$a^2 - b^2 = (a + b)(a - b)$$

$$(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

$$(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

$$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

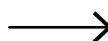
$$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + bc + 2ca$$

Measurement and Data

- | | | |
|--|--|--|
| ☐ Using the metric system | ☐ Measuring weight | ☐ 12-hour clock vs. military time |
| ☐ Calculating volume and capacity | ☐ Measuring distance | ☐ Interpreting graphs and tables |
| ☐ Measuring temperature | ☐ Measuring temperature | |

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HESI READING COMPREHENSION CHECKLIST

Core Comprehension Skills

- ☐ Identifying the main idea
- ☐ Identifying supporting details
- ☐ Identifying the conclusion
- ☐ Identifying the theme
- ☐ Identifying the setting
- ☐ Summarizing
- ☐ Recognizing the structure of a passage
- ☐ Identifying transition words and phrases

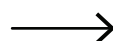
Critical Reading

- ☐ Fact vs. Opinion
- ☐ Objective statements
- ☐ Subjective statements
- ☐ Comparing and contrasting

Interpretation of Text

- ☐ Identifying word meanings using context
- ☐ Making logical inferences
- ☐ Identifying the purpose of a passage
- ☐ Identifying the tone of a passage
- ☐ Similes and metaphors
- ☐ Personification
- ☐ Points of view

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Foundations of Vocabulary

- ☐ Common prefixes and suffixes
- ☐ Common root words
- ☐ Compound words
- ☐ Acronyms and abbreviations
- ☐ Etymology (the origin of words)

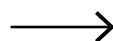
Advanced Vocabulary

- | | |
|---------------------------------------|---|
| ☐ Aseptic | ☐ Palpation |
| ☐ Contusion | ☐ Percussion |
| ☐ Embolus | ☐ Prone |
| ☐ Hypertension | ☐ Sphygmomanometer |
| ☐ Idiopathic | ☐ Supine |
| ☐ Intravenous | ☐ Tachycardia |
| ☐ Nosocomial | ☐ Thoracic |

General Vocabulary

- | | | |
|-------------------------------------|-------------------------------------|--------------------------------------|
| ☐ Acute | ☐ Depress | ☐ Neurologic |
| ☐ Antidote | ☐ Desiccated | ☐ Parameter |
| ☐ Benign | ☐ Impaired | ☐ Pathology |
| ☐ Bilateral | ☐ Incidence | ☐ Posterior |
| ☐ Bile | ☐ Incision | ☐ Prognosis |
| ☐ Callous | ☐ Infection | ☐ Quarantine |
| ☐ Cardiac | ☐ Inflamed | ☐ Rationale |
| ☐ Cartilage | ☐ Invasive | ☐ Regimen |
| ☐ Cast | ☐ Ketones | ☐ Remission |
| ☐ Cavity | ☐ Kinetic | ☐ Sublingual |
| ☐ Cephalic | ☐ Laceration | ☐ Supposition |
| ☐ Concave | ☐ Lateral | ☐ Syndrome |
| ☐ Constrict | ☐ Lethargic | ☐ Triage |
| ☐ Convulsive | ☐ Malignant | ☐ Vascular |
| ☐ Defecate | ☐ Metabolism | ☐ Vitals |

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Parts of Speech

- ☐ Nouns
- ☐ Pronouns
- ☐ Verbs
- ☐ Adjectives
- ☐ Adverbs
- ☐ Prepositions
- ☐ Conjunctions
- ☐ Interjections

Commonly Confused Words

- ☐ *Their vs. there vs. they're*
- ☐ *Its vs. it's*
- ☐ *Your vs. you're*
- ☐ *Affect vs. effect*
- ☐ *Lie vs. lay*
- ☐ *Fewer vs. less*

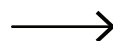
Common Grammatical Mistakes

- ☐ Misplaced modifiers
- ☐ Incorrect pronoun usage
- ☐ Subject-verb agreement
- ☐ Verb tense
- ☐ Run-on sentence
- ☐ Sentence fragments

Important Terms

- ☐ Active voice and passive voice
- ☐ Mood
- ☐ Tone
- ☐ Diction
- ☐ Syntax

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Basics of Biology

- ☐ Properties of water
- ☐ Hydrogen bonding
- ☐ Cohesion and adhesion
- ☐ Water as a universal solvent
- ☐ Polarity of water
- ☐ Carbohydrates
- ☐ Lipids
- ☐ Proteins
- ☐ Nucleic acids
- ☐ Catabolic and anabolic pathways
- ☐ Chemical processes within organisms

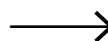
Cellular Biology

- ☐ Eukaryotic vs. prokaryotic
- ☐ Nucleus
- ☐ Mitochondria
- ☐ Chloroplasts
- ☐ Endoplasmic reticulum
- ☐ Golgi apparatus
- ☐ Lysosomes
- ☐ Cell membrane
- ☐ Cellular respiration
- ☐ ATP
- ☐ Photosynthesis
- ☐ Mitosis and meiosis

Genetics

- ☐ Mendelian genetics
- ☐ Non-Mendelian inheritance
- ☐ Structure and function of DNA
- ☐ The role of DNA in protein synthesis
- ☐ DNA replication, transcription, and translation
- ☐ Genetic code

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Fundamental Concepts

- ☐ Scientific notation
- ☐ The metric system
- ☐ Celsius
- ☐ Fahrenheit
- ☐ Kelvin

Atomic and Molecular Structure

- ☐ Atomic structure
- ☐ Atomic theory
- ☐ Periodic table of elements
- ☐ Ionic bonds
- ☐ Covalent bonds
- ☐ Metallic bonds
- ☐ Molecular geometry
- ☐ Polarity

Chemical Reactions and Equations

- ☐ Balancing chemical equations
- ☐ Coefficients in chemical formulas
- ☐ Subscripts in chemical formulas
- ☐ Synthesis reactions
- ☐ Decomposition reactions
- ☐ Single replacement reactions
- ☐ Double replacement reactions
- ☐ Combustion reactions
- ☐ Calculating reactants and products
- ☐ Molar relationships
- ☐ Oxidation states
- ☐ Redox reactions
- ☐ Electron transfer

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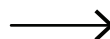
Chemical Properties and Behaviors

- ☐ Reaction rates
- ☐ Temperature
- ☐ Concentration
- ☐ Surface area
- ☐ Catalysts
- ☐ Dynamic equilibrium
- ☐ Reversibility
- ☐ Le Chatelier's principle
- ☐ Properties of solutions
- ☐ Molarity
- ☐ Molality
- ☐ Percent composition
- ☐ pH scale
- ☐ Acid-base reactions
- ☐ pKa and pKb
- ☐ Boyle's Law
- ☐ Charles's Law
- ☐ Avogadro's Law

Advanced Topics

- ☐ Radioactivity
- ☐ Nuclear reactions
- ☐ Half-life
- ☐ Nuclear energy
- ☐ Enthalpy
- ☐ Entropy
- ☐ Biochemistry

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HESI ANATOMY AND PHYSIOLOGY CHECKLIST

Body Systems

- ☐ Integumentary system
- ☐ Skeletal system
- ☐ Muscular system
- ☐ Nervous system
- ☐ Endocrine system
- ☐ Circulatory system
- ☐ Respiratory system
- ☐ Digestive system
- ☐ Urinary system
- ☐ Reproductive system

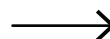
Cellular and Tissue Structure

- ☐ Histology
- ☐ Epithelial tissue
- ☐ Connective tissue
- ☐ Mitosis and meiosis

Basic Concepts and Terminology

- ☐ Anterior/posterior
- ☐ Superior/inferior
- ☐ Medial/lateral
- ☐ Proximal/distal
- ☐ Superficial/deep
- ☐ Sagittal plane
- ☐ Coronal plane
- ☐ Transverse plane
- ☐ Dorsal cavity
- ☐ Ventral cavity
- ☐ Homeostasis
- ☐ Metabolism
- ☐ Anabolism and catabolism

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HESI A2 Test Prep Checklist

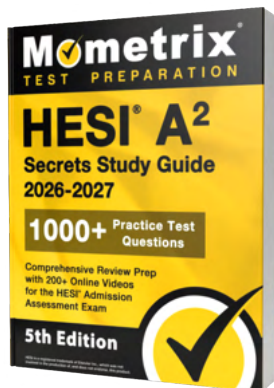
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Checklists are used all around the world as a vital tool. It's been shown that using a simple checklist can help people like surgeons, astronauts, and pilots minimize errors and increase efficiency in the workplace.

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