



## 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

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

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

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

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

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

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

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

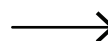
$$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

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

## Measurement and Data

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

Scan the QR code to unlock a free HESI Math practice test!





# 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

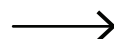
## Critical Reading

- 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

Scan the QR code to unlock a  
free HESI Reading Comprehension  
practice test!



## Foundations of Vocabulary

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

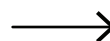
## Advanced Vocabulary

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

## General Vocabulary

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

Scan the QR code to unlock a free HESI Vocabulary practice test!



## 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*

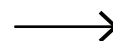
## Common Grammatical Mistakes

- 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

Scan the QR code to unlock a free HESI Grammar practice test!



## 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

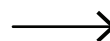
## Cellular Biology

- 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

Scan the QR code to unlock a free HESI Biology practice test!



## 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

Scan the QR code to unlock a free HESI Chemistry practice test!



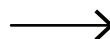
## Chemical Properties and Behaviors

- 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

Scan the QR code to unlock a  
free HESI Chemistry practice test!





# 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

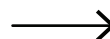
## Cellular and Tissue Structure

- 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

Scan the QR code to unlock a free HESI Anatomy and Physiology practice test!





# HESI A2 Test Prep Checklist

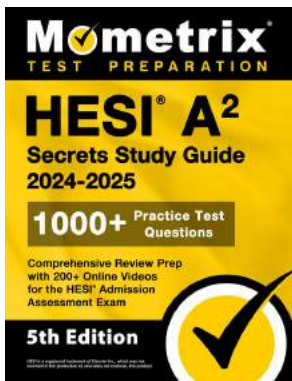
Studying for the HESI doesn't have to be a pain. Our comprehensive checklist highlights the key topics you need to know to ace the exam!

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.

Using a checklist to guide your studying provides a structured and organized way to track your progress and ensure that you are covering all the important information!







Note that this checklist does not cover everything that's on the HESI exam, and not every school requires you to take every section of the exam. For a more comprehensive review, visit [mometrix.com/academy/hesi-a2-test/](https://mometrix.com/academy/hesi-a2-test/).

Need more resources? Scan the QR codes below to check out test prep materials from Mometrix that are specifically designed to help you pass the HESI exam!



HESI Study Guide

## Mometrix ONLINE COURSES HESI PREP COURSE

-  3,250+ PRACTICE QUESTIONS
-  150+ REVIEW VIDEOS
-  180+ STUDY LESSONS
-  550+ DIGITAL FLASHCARDS
-  MOBILE-FRIENDLY
-  AND MUCH MORE!



HESI Flashcards



Online HESI Course