

# ASVAB GENERAL SCIENCE CHECKLIST

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## Earth and Space Science

- Earth's layers and structure
- Rock cycle and plate tectonics
- Weathering and erosion
- Weather vs. climate
- Atmosphere
- Moon phases and tides
- The solar system

## Physical Science

- States of matter
- Atomic structure
- Periodic table
- Chemical and physical changes
- Energy types and conversions
- Laws of thermodynamics
- Wave properties (sound and light)
- Electromagnetic spectrum

## Life Science

- Cell structure
- Prokaryotic vs. eukaryotic cells
- Cell membrane and organelles
- DNA structure
- Genetics and heredity
- Mendelian inheritance
- Evolution and natural selection
- Classification of organisms
- Ecosystems
- Photosynthesis
- Cellular respiration
- Human body systems

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# ASVAB MATHEMATICS CHECKLIST

## Number Theory and Operations

- Order of operations (PEMDAS)
- Fractions (add, subtract, multiply, divide)
- Converting fractions and decimals
- Percentages and percent change
- Ratios and proportions
- Exponents and square roots
- Absolute value
- Factors and multiples
- Rounding and estimation
- Square roots and cube roots
- Number sequences and patterns

## Data and Probability

- Mean, median, and mode
- Basic probability
- Interpreting charts and graphs
- Permutations and combinations

## Algebra

- Linear equations and inequalities
- Systems of equations
- Polynomials
- Factoring expressions
- Quadratic equations
- Functions and relations
- Word problems with variables

## Geometry

- Perimeter and area
- Volume and surface area
- Pythagorean theorem
- Coordinate geometry basics

## Applied Mathematics

- Simple and compound interest
- Profit, loss, and discount
- Unit conversion

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# ASVAB WORD KNOWLEDGE CHECKLIST

## Vocabulary Strategies

- Prefixes, suffixes, and root words
- Compound words
- Synonyms and antonyms
- Connotation vs. denotation
- Homophones

## Parts of Speech

- Nouns and pronouns
- Verbs (action, linking, helping)
- Adjectives and adverbs
- Prepositions
- Conjunctions (coordinating and correlative)

## General Vocabulary

- |                                      |                                     |                                      |
|--------------------------------------|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> Abstain     | <input type="checkbox"/> Febrile    | <input type="checkbox"/> Pertain     |
| <input type="checkbox"/> Accountable | <input type="checkbox"/> Figurative | <input type="checkbox"/> Phlegm      |
| <input type="checkbox"/> Adhere      | <input type="checkbox"/> Ignorant   | <input type="checkbox"/> Potent      |
| <input type="checkbox"/> Bilateral   | <input type="checkbox"/> Impending  | <input type="checkbox"/> Rationale   |
| <input type="checkbox"/> Breach      | <input type="checkbox"/> Indolent   | <input type="checkbox"/> Refrain     |
| <input type="checkbox"/> Capital     | <input type="checkbox"/> Labile     | <input type="checkbox"/> Rigid       |
| <input type="checkbox"/> Concave     | <input type="checkbox"/> Latent     | <input type="checkbox"/> Spasm       |
| <input type="checkbox"/> Contingent  | <input type="checkbox"/> Lethargic  | <input type="checkbox"/> Stringent   |
| <input type="checkbox"/> Deficit     | <input type="checkbox"/> Milieu     | <input type="checkbox"/> Susceptible |
| <input type="checkbox"/> Dilate      | <input type="checkbox"/> Obstruct   | <input type="checkbox"/> Taciturn    |
| <input type="checkbox"/> Dilute      | <input type="checkbox"/> Obtuse     | <input type="checkbox"/> Tertiary    |
| <input type="checkbox"/> Discrete    | <input type="checkbox"/> Occlude    | <input type="checkbox"/> Triage      |
| <input type="checkbox"/> Exacerbate  | <input type="checkbox"/> Overt      | <input type="checkbox"/> Unseemly    |
| <input type="checkbox"/> Exertion    | <input type="checkbox"/> Parameter  | <input type="checkbox"/> Untoward    |
| <input type="checkbox"/> Expectorate | <input type="checkbox"/> Paroxysmal | <input type="checkbox"/> Viscosity   |

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# ASVAB PARAGRAPH COMPREHENSION CHECKLIST

## Core Reading Skills

- Main idea
- Topic sentences
- Supporting sentences
- Summarize a passage
- Conclusion
- Author's purpose
- Tone

## Critical Reading

- Fact vs. opinion
- Objective vs. subjective
- Evaluate evidence and reasoning
- Identify assumptions
- Compare viewpoints
- Logical fallacies

## Interpretation

- Make logical inferences
- Use context clues
- Draw conclusions
- Identify implied meaning
- Determine word meaning
- Figurative language
- Identify author's bias

## Text Structure

- Cause and effect
- Sequence
- Chronological order
- Compare and contrast
- Problem and solution
- Transition words

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a free ASVAB Paragraph  
Comprehension practice test!



# ASVAB ELECTRONICS INFORMATION CHECKLIST

## Basic Electricity

- Electric charge and current
- Voltage
- Resistance
- Ohm's law ( $V=IR$ )
- Power formula ( $P=VI$ )
- Series and parallel circuits
- AC vs. DC current
- Frequency and period
- Kirchhoff's voltage and current laws

## Electrical Systems

- Semiconductors
- Integrated circuits
- Grounding
- Electrical units of measurement
- Generators and motors
- Wiring and insulation types

## Electronic Components

- Resistors and color codes
- Capacitors
- Inductors
- Diodes
- Transistors (NPN/PNP)
- Transformers
- Fuses and circuit breakers
- Switches and relays

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# ASVAB AUTO & SHOP INFORMATION CHECKLIST

## Automotive Systems

- 4-stroke engine cycle
- Engine components
- Ignition system
- Fuel system
- Cooling system
- Lubrication system
- Exhaust system and emissions
- Drivetrain and differentials
- Braking system
- Suspension and steering
- Tires and wheels

## Shop Tools and Equipment

- Hand tools and power tools
- Measuring tools
- Fasteners
- Tool safety and PPE

## Materials and Construction

- Wood types/grain
- Lumber dimensions and grades
- Joints and fastening methods
- Ferrous vs. non-ferrous
- Welding and soldering basics
- Finishing and painting
- Reading blueprints
- Measurement and layout

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# ASVAB MECHANICAL COMPREHENSION CHECKLIST

## Physics Principles

- Newton's laws of motion
- Force, mass, and acceleration
- Gravity
- Friction (static and kinetic)
- Work, power, and energy
- Kinetic and potential energy
- Conservation of energy
- Momentum and impulse
- Torque and rotational motion
- Centripetal force

## Structural Concepts

- Tension and compression
- Beams, supports, and loads
- Structural stability
- Hooke's law ( $F = kx$ )
- Heat transfer

## Simple Machines

- Levers (1st, 2nd, and 3rd class)
- Pulleys
- Inclined planes
- Wedges
- Screws and threads
- Wheel and axle
- Gears
- Cams and cranks
- Mechanical advantage

## Fluid Mechanics

- Liquid pressure
- Pascal's principle (hydraulics)
- Boyle's law (pneumatics)
- Archimedes' principle (buoyancy)
- Bernoulli's principle

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a free ASVAB Mechanical  
Comprehension practice test!



# ASVAB ASSEMBLING OBJECTS CHECKLIST

## **Spatial Reasoning**

- Mental rotation of 2D and 3D shapes
- Spatial visualization
- Figure-ground (perception)
- Part-whole relationships
- Mirror images/reflections
- Congruent shapes
- Pattern recognition

## **Shape Relationships**

- Match edges that touch
- Identify where pieces connect
- Compare relative part size
- Check corner and side placement
- Distinguish similar-looking distractors
- Spot missing or extra features
- Recognize overlapping features
- Compare interior and exterior lines

## **Part Orientation/Alignment**

- Track edge direction
- Match angle orientation
- Check how parts line up
- Notice when a piece is rotated
- Notice when a piece is flipped
- Compare attachment positions
- Check side-to-side placement
- Follow top/bottom orientation

## **Final Assembly**

- Predict the final outline
- Identify the correct assembled figure
- Visualize how separate parts combine
- Recognize completed shape after rotation
- Recognize completed shape after reflection
- Check that all pieces are accounted for

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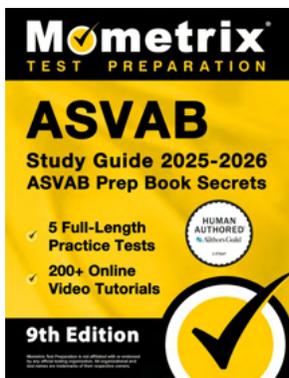
Studying for the ASVAB doesn't have to be a pain. Our comprehensive checklist highlights the key topics you need to know to ace the exam!

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 ASVAB. For a more comprehensive review, visit [mometrix.com/academy/asvab-practice-test/](https://mometrix.com/academy/asvab-practice-test/).

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ASVAB Study Guide

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