

STAAR PHYSICS Quick Reference Guide

RS	Readiness Standard
SS	Supporting Standard
	Process Skills

Reporting Category 1: Force and Motion (14 questions)

P.4A	RS	generate and interpret graphs and charts describing different types of motion, including the use of real-time technology such as motion detectors or photogates
P.4B	RS	describe and analyze motion in one dimension using equations with the concepts of distance, displacement, speed, average velocity, instantaneous velocity, and acceleration
P.4C	SS	analyze and describe accelerated motion in two dimensions using equations, including projectile and circular examples
P.4D	RS	calculate the effect of forces on objects, including the law of inertia, the relationship between force and acceleration, and the nature of force pairs between objects
P.4E	SS	develop and interpret free-body force diagrams
P.4F	SS	identify and describe motion relative to different frames of reference

Reporting Category 2 Gravitational, Electrical, Magnetic, and Nuclear Forces (12 questions)

P.5A	SS	research and describe the historical development of the concepts of gravitational, electromagnetic, weak nuclear, and strong nuclear forces
P.5B	RS	describe and calculate how the magnitude of the gravitational force between two objects depends on their masses and the distance between their centers
P.5C	SS	describe and calculate how the magnitude of the electrical force between two objects depends on their charges and the distance between them
P.5D	SS	identify examples of electric and magnetic forces in everyday life
P.5E	SS	characterize materials as conductors or insulators based on their electrical properties
P.5F	RS	design, construct, and calculate in terms of current through, potential difference across, resistance of, and power used by electric circuit elements connected in both series and parallel combinations
P.5G	SS	investigate and describe the relationship between electric and magnetic fields in applications such as generators, motors, and transformers
P.5H	SS	describe evidence for and effects of the strong and weak nuclear forces in nature

Reporting Category 3 Momentum and Energy (12 questions)

P.6A	RS	investigate and calculate quantities using the work-energy theorem in various situations
P.6B	RS	investigate examples of kinetic and potential energy and their transformations
P.6C	RS	calculate the mechanical energy of, power generated within, impulse applied to, and momentum of a physical system
P.6D	RS	demonstrate and apply the laws of conservation of energy and conservation of momentum in one dimension
P.6E	SS	describe how the macroscopic properties of a thermodynamic system such as temperature, specific heat, and pressure are related to the molecular level of matter, including kinetic or potential energy of atoms
P.6F	SS	contrast and give examples of different processes of thermal energy transfer, including conduction, convection, and radiation
P.6G	SS	analyze and explain everyday examples that illustrate the laws of thermodynamics, including the law of conservation of energy and the law of entropy

Reporting Category 4 Waves and Quantum Phenomena (12 questions)

P.7A	SS	examine and describe oscillatory motion and wave propagation in various types of media
P.7B	RS	investigate and analyze characteristics of waves, including velocity, frequency, amplitude, and wavelength, and calculate using the relationship between waves, speed, frequency, and wavelength
P.7C	SS	compare characteristics and behaviors of transverse waves, including electromagnetic waves and the electromagnetic spectrum, and characteristics and behaviors of longitudinal waves, including sound waves
P.7D	RS	investigate behaviors of waves, including reflection, refraction, diffraction, interference, resonance, and the Doppler effect
P.7E	SS	describe and predict image formation as a consequence of reflection from a plane mirror and refraction through a thin convex lens
P.7F	SS	describe the role of wave characteristics and behaviors in medical and industrial applications
P.8A	RS	describe the photoelectric effect and the dual nature of light
P.8B	SS	compare and explain the emission spectra produced by various atoms
P.8C	SS	describe the significance of mass-energy equivalence and apply it in explanations of phenomena such as nuclear stability, fission, and fusion
P.8D	SS	give examples of applications of atomic and nuclear phenomena such as radiation therapy, diagnostic imaging, and nuclear power and examples of applications of quantum phenomena such as digital cameras

Staar Physics May 2013

Marco Cascella

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Staar Physics May 2013:

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SWYK on STAAR Science Gr. 8, Parent/Teacher Edition Show What You Know Publishing, 2013-03-01 Correlates with the Student Workbook Reviews the assessed Texas Essential Knowledge and Skills TEKS for Science Provides correct answers and analyses for the Assessments Correlation charts and skills charts help educators track students strengths and weaknesses with STAAR Includes Practice Tutorial CD for use on screen or IWB

Smart Infrastructure and Applications Rashid Mehmood, Simon See, Iyad Katib, Imrich Chlamtac, 2019-06-20 This book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics The book features an array of subjects that include smart cities and infrastructure e healthcare emergency and disaster management Internet of Vehicles supply chain management eGovernance and high performance computing The book is divided into five parts Smart Transportation Smart Healthcare Miscellaneous Applications Big Data and High Performance Computing and Internet of Things IoT Contributions are from academics researchers and industry professionals around the world Features a broad mix of topics related to smart infrastructure and smart applications particularly high performance computing big data and artificial intelligence Includes a strong emphasis on methodological aspects of infrastructure technology and application development Presents a substantial overview of research and development on key economic sectors including healthcare and transportation

Foundations of Quantum Physics II (1933-1958) J. Kalckar, 2013-10-22 Volume 7 is a direct continuation of Volume 6 which documented the birth of the complementarity argument and its earliest elaborations It covers the extension and refinement of the complementarity argument from 1933 until Bohrs death in 1962 All Bohr s publications on the subject together with selected manuscripts and extracts of his correspondence with friends and fellow pioneers such as Werner Heisenberg and Wolfgang Pauli are included Divided into two largely independent parts the volume begins with Bohr s contributions to Relativistic Quantum Theory Together with L on Rosenfeld Bohr undertook a thorough investigation of the measuring problem in quantum electrodynamics and demonstrated the full accordance between the formalism and the result of idealized thought experiments The articles in the second part although also restricted in scope to the field of physics address a broader audience One of the most impressive treatises is Bohr s own account of his debates with Albert Einstein over more than twenty years on the consistency the completeness and the epistemological consequences of quantum mechanics Volumes 6 and 7 of the Collected Works are in turn related to the forthcoming Volume 10 which broadens the scope by presenting Bohr

s applications of the complementarity argument beyond the domain of physics Although each volume may be read independently careful attention should be paid to the interrelationships between each volume in order to appreciate the subtlety of Bohr s continued elaboration and fine tuning of his complementarity argument **Complementarity Beyond Physics (1928-1962)** D. Favrholt, 2013-10-22 This volume is divided into five parts The title of the volume refers primarily to part I which is by far the largest and comprises papers discussing the fundamental questions of biology and related psychological and philosophical problems Following the reproduction of papers brought to publication by Bohr there is a separate Appendix to Part I including some of Bohr s most interesting and substantive unpublished contributions in this area The papers in Part I span the last thirty years of Bohr s life and display his great interest in biological problems and his unrelenting efforts to show that biology cannot be reduced to physics and chemistry Part II contains articles of a more general cultural interest Some of these show that Bohr regarded the complementary perspective to be of value also outside the scientific sphere Part III contains the articles Bohr wrote about the great Danish philosopher Harald H ffding These short papers are presented in a section on their own because of the continuing discussion in the history of science about H ffding s possible influence on Bohr s work in physics and his whole scientific approach Part IV comprises articles illuminating the history of 20th century physics Bohr had great veneration for his predecessors and teachers and he prepared these articles with great care Part V contains correspondence relating to the material in Parts I through IV As in previous volumes an inventory of relevant unpublished manuscripts held at the Niels Bohr Archive constitutes an appendix to the whole volume
Journal of the Physical Society of Japan ,2017 *Arts & Humanities Citation Index* ,1980

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