STAAR PHYSICS REFERENCE MATERIALS

FORCE AND MOTION

Average velocity $= \dfrac{\text{displacement}}{\text{change in time}}$	$v_{avg} = \dfrac{\Delta d}{\Delta t}$
Acceleration $= \dfrac{\text{final velocity} - \text{initial velocity}}{\text{change in time}}$	$a = \dfrac{v_f - v_i}{\Delta t}$
Acceleration $= \dfrac{(\text{final velocity})^2 - (\text{initial velocity})^2}{2(\text{displacement})}$	$a = \dfrac{v_f^2 - v_i^2}{2\Delta d}$
Displacement $= (\text{initial velocity})(\text{change in time}) + \frac{1}{2}(\text{acceleration})(\text{change in time})^2$	$\Delta d = v_i \Delta t + \frac{1}{2} a \Delta t^2$
Centripetal acceleration $= \dfrac{(\text{tangential velocity})^2}{\text{radius}}$	$a_c = \dfrac{v_t^2}{r}$
Net force $= (\text{mass})(\text{acceleration})$	$F_{net} = ma$
Work $= (\text{force})(\text{distance})$	$W = Fd$
Torque $= (\text{force})(\text{lever arm})$	$\tau = Fr$
Power $= \dfrac{\text{work}}{\text{time}}$	$P = \dfrac{W}{t}$
Pythagorean theorem	$a^2 + b^2 = c^2$

GRAVITATIONAL, ELECTRICAL, AND MAGNETIC FORCES

Force of gravitational attraction between 2 objects $= \left(\text{universal gravitation constant}\right)\left(\dfrac{\left(\text{mass of 1st object}\right)\left(\text{mass of 2nd object}\right)}{\left(\text{distance between centers of objects}\right)^2}\right)$	$F_g = G\left(\dfrac{m_1 m_2}{d^2}\right)$
Force between 2 charged particles $= \left(\text{Coulomb's constant}\right)\left(\dfrac{\left(\text{charge of 1st particle}\right)\left(\text{charge of 2nd particle}\right)}{\left(\text{distance between particles}\right)^2}\right)$	$F_{electric} = k_c \dfrac{q_1 q_2}{d^2}$
Electrical power $= (\text{voltage})(\text{current})$	$P = VI$
Current $= \dfrac{\text{voltage}}{\text{resistance}}$	$I = \dfrac{V}{R}$
Equivalent resistance for resistors in series	$R = R_1 + R_2 + R_3 + \cdots$
Equivalent resistance for resistors in parallel	$\dfrac{1}{R} = \dfrac{1}{R_1} + \dfrac{1}{R_2} + \dfrac{1}{R_3} + \cdots$

Staar Physics Formula Chart

David J. Adelstein

Staar Physics Formula Chart:

Squamous Cell Head and Neck Cancer David J. Adelstein,2007-11-06 Leading expert physicians and investigators from around the world review the state of the art in the management of squamous cell head and neck cancer with emphasis on coordinating different treatment modalities The authors address several surgical issues including laser based surgery larynx preservation approaches salvage surgery and neck management after non operative treatment They also discuss definitive radiation for larynx cancer brachytherapy altered fractionation radiation intensity modulated radiation therapy and the importance of tumor hypoxia as well as the role of chemotherapy in sequential concurrent and adjuvant multi modality treatment schedules Other topics of special interest include targeted and gene therapies multimodality management of nasopharyngeal cancer chemoprevention toxicity modification quality of life outcomes symptom palliation and epidemiology

Physics Formulas . Sparknotes Editors,2002-10 SparkChartsTM created by Harvard students for students everywhere serve as study companions and reference tools that cover a wide range of college and graduate school subjects including Business Computer Programming Medicine Law Foreign Language Humanities and Science Titles like How to Study Microsoft Word for Windows Microsoft Powerpoint for Windows and HTML give you what it takes to find success in school and beyond Outlines and summaries cover key points while diagrams and tables make difficult concepts easier to digest This two page chart lists the most important physics formulas divided into the following sections Physical constantsDynamicsVector formulasElectromagnetic constantsOpticsWork energy powerMomentum and impulseKinematicsWavesRotational motionSimple harmonic motionElectricityMagnetismThermodynamicsGravity **Spark Charts Physics Formulas** Sterling,2014-02-04 SparkCharts tm The information you need concisely conveniently and accurately Created by Harvard students for students everywhere these study companions and reference tools cover a wide range of college and graduate school subjects from Business and Computer Programming to Medicine Law and Languages They ll give you what it takes to find success in school and beyond Outlines and summaries cover key points while diagrams and tables make difficult concepts easier to grasp This two page chart lists the most important physics formulas divided into the following sections Physical constants Dynamics Vector formulas Electromagnetic constants Optics Work energy power Momentum and impulse Kinematics Waves Rotational motion Simple harmonic motion Electricity Magnetism Thermodynamics Gravity **Ultimate Math Formula Sheet** Jonathan Tullis,2017-08-19 Algebra Trigonometry PreCalculus Calculus all areas Linear Algebra Differential Equations Physics Physics Formulas and Tables of Constants Kingsley Augustine,2023-08-05 This book will serve as a guide for students to easily memorize formulas and remember them whenever needed It is a quick reference guide for students and teachers of physics as it consists of formulas and many tables of physical constants in physics It is a handbook which is portable to carry about and to easily check for formulas and physical constants whenever needed The various aspect of physics where formulas are provided in this book are listed below

PART 1 FORMULAS Fundamental quantities and units Friction Density Pressure Work Energy and Power Current Electricity Elasticity of material Resolution of vectors Motion Momentum Simple Harmonic Notion Machines Heat Gas Laws Wave Motion Sound Light Gravitational Field Electric field Electrolysis Magnetic Field The Transformer Alternating Current A C Circuit Radioactivity Structure of the atom Photoelectric effect Wave Particle nature of matter The various tables provided in this book are listed below PART 2 TABLES OF PHYSICAL CONSTANTS Table of Fundamental Physical Constants Table of Relative Permittivity Dielectric Constant of Materials Table of Specific Capacitance of Materials Table of Electrical Conductivity and Resistivity of Materials Table of Temperature Coefficient of Materials Table of Specific Heat Capacity of Materials Table of Density of Solids Table of Density of Liquids Table of Thermal Conductivity of Elements Table of Thermal Conductivity of other materials Table of Melting Points of Elements Table of Melting Points of Alloys and Chemicals Table of Boiling Point of Elements Table of Boiling Point of Common Chemicals Table of Specific Latent Heat of Fusion and Vaporization of Materials Magnetic Permeability of Material Table of Viscosity of Materials This book will serve as a very useful guide for students and teachers to make reference to whenever there is a quick need for formulas and constants It will also help students to easily memorize formulas and remember them whenever needed **Formulas, Facts, and Constants** H. J. Fischbeck,K. H. Fischbeck,2012-12-06 The material presented in this book has been compiled for the convenience of the reader The aim of the book is to provide a handy source of formulas conversion factors and constants for everyday use The formulas and tables are amended by examples in all of those cases where their use is not self explanatory The material has been selected to be helpful whenever it is inconvenient or not possible to consult tables available at the library Section 1 provides the fundamental tools of mathematics needed in all areas of the physical sciences Section 2 summarizes the SI system lists conversion factors and provides precise values of fundamental constants Sections 3 and 4 review the basic terms of spectroscopy atomic structure and wave mechan ics These sections serve as a guide to the interpretation of modern literature Section 5 is a resource for work in the laboratory Data and formulas are given to be of assistance in the use of frequently encountered equipment such as vacuum systems and electronic devices Material constants and other data are listed for information and as an aid for estimates or problem solving The assistance of the Springer Verlag during the various stages of the development of this book is gratefully acknowl edged The authors like to thank Dr F L Boschke for his many helpful suggestions Helmut J Fischbeck Kurt H Fischbeck Contents Basic mathematical facts and figures **Algebra Formula Sheet** Jonathan Tullis,2017-07-04 Free math and physics resources via JonathanTullis com My formula sheets and crash course books are designed to assist college students throughout their STEM degree I have isolated all of the most important information from all previous courses current courses and future courses that STEM majors must take i e Algebra Trigonometry PreCalculus Calculus all areas Linear Algebra Differential Equations Physics and more *Useful Mathematical and Physical Formulae* Matthew Watkins,2001-04-01 Collected in this book are commonly used formulae for

studies such as quadratics calculus and trigonometry in addition are simplified explanations of Newton s Laws of Gravity and Snell s Laws of Refraction A glossary a table of mathematical and physical constants and a listing of Imperial and Metric conversions is also included   *More Great Formulas Explained* Metin Bektas,2017-04 In this book you will find some of the greatest and most useful formulas that the fields of physics and mathematics have brought forth Each formula is explained gently and in great detail including a discussion of all the quanitites involved and examples that will make clear how and where to apply it On top of that there are plenty of illustrations that support the explanations and make the reading experience even more vivid The book covers a wide range of topics torque car dynamics escape velocity cooling sailing river flow wind driven waves heat radiation main sequence stars cylinders standard deviation Zipf distribution and many more From the author of Statistical Snacks and Physics In Quantities and Examples This is volume II of the series Great Formulas Explained It is recommended but not necessary to start with volume I   *Useful Formulae in Physics (elementary) and International Standard Units* University of Queensland. Department of Physics,1966   *Formulas, Facts, and Constants for Students and Professionals in Engineering, Chemistry, and Physics* Helmut J. Fischbeck,Kurt Fischbeck,1982   <u>Math and Physics Formulas for STEM Majors</u> Jonathan Tullis,2017-07-26 Everything a college STEM major needs to get through their core math and physics courses   <u>Great Formulas Explained - Physics, Mathematics, Economics</u> Metin Bektas,2017-03-31 In this book you will find some of the greatest and most useful formulas that the fields of physics mathematics and economics have brought forth Each formula is explained gently and in great detail including a discussion of all the quantities involved and examples that will make clear how and where to apply it On top of that there are plenty of illustrations that support the explanations and make the reading experience even more vivid The book covers a wide range of topics acoustics explosions hurricanes pipe flow car traffic gravity satellites roller coasters flight conservation laws trigonometry equations inflation loans and many more From the author of Physics In Quantities and Examples and Introduction to Stars Spectra Formation Evolution Collapse Volume II is now available under the title More Great Formulas Explained   **Useful Formulae in Physics (elementary) and International Standard Units** ,1971   **Equations of Mathematical Physics** Andrej Nikolaevič Tichonov (Mathematiker),Aleksandr Andreevič Samarskij (Mathematiker, Sowjetunion),1963

Unveiling the Magic of Words: A Review of "**Staar Physics Formula Chart**"

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Staar Physics Formula Chart Introduction

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