

Physics FORMULAE

By: Samruddhi Tagalpallewar

MECHANICS

avg. speed = $\frac{v+u}{2}$

$s = \frac{1}{2}(u+v)t$

$v = u + at$

$s = ut + \frac{1}{2}at^2$

$v^2 = u^2 + 2as$

THERMAL PHYSICS

$P = \frac{F}{A}$
(Pa) (N/m²)

$P = h\rho g$

$P_1V_1 = P_2V_2$

$Q = mc\Delta T$
(J) (kg) (K)

$Q = mL$
latent heat

specific latent heat
(J/kg)

WAVES

$v = f\lambda$
(m/s) (Hz) (m)

$f = \frac{1}{T}$
(s)

OBJECT IN EQUILIBRIUM

Σ clockwise moments
= Σ anti-clockwise moments
moment on same pivot

= Σ down forces

= Σ upward forces
(net force = 0)
moment

DYNAMIC PHYSICS

$\rho = \frac{m}{V}$
(kg/m³)

$W = mg$
(N)

$F = ma$
(N) (kg) (m/s²)

$W = Fd$
(J)

$K.E = \frac{1}{2}mv^2$

$P.E = mgh$

thermal e-
 $\frac{Q}{t}$

$P = \frac{Wd}{t} = \frac{e}{t} = \frac{Q}{t}$
(W) (Nm) (N) (m)

output power
input power $\times 100$

d perpendicular distance from pivot

REFRACTIVE INDEX

$n = \frac{\sin i}{\sin r}$ (air/vacuum)
(medium)

$\sin c = \frac{1}{n}$
critical angle

$n = \frac{c}{v}$ (speed of light in vacuum)
(speed of light in medium)

TRANSFORMER EQUATION

$\frac{V_p}{V_s} = \frac{I_s}{I_p}$
voltage current

any coil
any coil

ELECTRICITY

$Q = It$
(C) (A) (s)

$V = IR$
(V) (A) (Ω)

$W = \frac{Vd}{Q}$
(J) (V) (C)

total work done
 Q (C)

$E = VIt$
(J) (V) (A) (s)

$Q = I^2Rt$
(J) (A) (Ω) (s)

$\frac{V^2}{R}t$
(J) (V) (Ω) (s)

$P = VI$
(W) (V) (A)

* Make sure units are right

And Notetaking Guide Physical Science Notes

Norma B. Kahn

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

And Notetaking Guide Physical Science Notes:

Focus on Physical Science California Edition Michael J. Padilla, 2007 *Resources in Education*, 1999-10 **Note Taking Activities in E-Learning Environments** Minoru Nakayama, 2021-10-01 The main focus of this book is presenting practical procedures for improving learning effectiveness using note taking activities during e learning courses Although presentation of e learning activities recently has been spreading to various education sectors some practical problems have been discussed such as evaluation of learning performance and encouragement of students The authors introduce note taking activity as a conventional learning tool in order to promote individual learning activity and learning efficacy The effectiveness of note taking has been measured in practical teaching in a Japanese university using techniques of learning analytics and the results are shown here The relationships between note taking activity and students characteristics the possibility of predicting the final learning performance using metrics of students note taking and the effectiveness for individual emotional learning factors are evaluated Some differences between blended learning and fully online learning courses are also discussed The authors provide novel analytical procedures and ideas to manage e learning courses In particular the assessment of note taking activity may help to track individual learning progress and to encourage learning motivation **Complete Guide to OneNote** Scott Zimmerman, 2008-01-01 Complete Guide to OneNote is aimed at making users more productive by helping them organize what are today ephemeral and disconnected scraps of personal information gathered prior to the creation of a formal work product This comprehensive reference explains this new category of software and its user paradigm including detailed discussion of features and interoperability with other programs and services from Microsoft and from third parties The book also provides general and domain specific guidance on how you can use OneNote to increase personal and enterprise productivity and information about customizing OneNote including information for Office XP developers Throughout the book author and Microsoft Most Valuable Professional W Frederick Zimmerman draws on his extensive experience with Microsoft emerging technologies and his deep understanding of how professionals use software in their workflow **Modules**, 2005 [Visual Note-Taking for Educators](#) Wendi Pillars, 2015-11-19 A step by step guide for teachers to the benefits of visual note taking and how to incorporate it in their classrooms We ve come a long way from teachers admonishing students to put away their drawings and take traditional long form notes Let s be honest note taking is boring and it isn t always the most effective way to retain information This book is a guide for teachers about getting your students drawing and sketching to learn visually Whether in elementary school or high school neuroscience has shown that visual learning is a very effective way to retain information The techniques in this book will help you work with your students in novel ways to retain information Visual note taking can be used with diverse learners all ages and those who have no drawing experience Teachers are provided with a library of images and concepts to steal tweak and use in any way in their classrooms The book is liberally illustrated with student examples from elementary and high school students alike

Differentiating Science Instruction and Assessment for Learners With Special Needs, K-8 Kevin D. Finson, Christine K. Ormsbee, Mary M. Jensen, 2011-03-02 Field tested strategies for teaching science to students with special needs Teachers are required to provide appropriate science instruction to all students including children with special needs However they are often left on their own to figure out how to effectively differentiate lessons and activities Help is here This timely practical guidebook shows general and special educators how to retool science activities and assessments for students with learning disabilities behavior disorders and more The authors cover a broad range of topics in an orderly concise fashion including National and state requirements for student learning and science literacy Pedagogical strategies for collaborative learning groups self paced learning centers literature circles and team projects Grade appropriate ways to revise science activities and assessments for biology earth science and physical science lessons Step by step instructions for using rubrics for evaluation revision and assessment Information on teacher collaboration and specific disabilities Also included are vignettes and checklists to assist teachers in bridging the gap between science and special education instruction and assessment By adjusting the content teaching critical thinking and providing a variety of ways for learners to demonstrate their knowledge you will give all students the chance to achieve academic success in science

Economics: Today and Tomorrow, Reading Essentials and Note-Taking Guide McGraw Hill, 2007-04-11 Reading Essentials and Study Guide English and Spanish Reinforce critical concepts from the text and help students improve their reading for information skills with this essential resource written 2 3 grade levels below the Student Edition

Applied Language Learning ,2004

Academic Listening Encounters: The Natural World Teacher's Manual Yoneko Kanaoka, 2009-03-23 A content based reading writing listening and speaking set that introduces students to topics in Earth science and biology

Effective Study Strategies for Every Classroom, Grades 7-12 Rebecca Lash-Rabick, Carol Meysenburg Johnson, Jacqueline Bode Frevert, Suzann Morin-Steffen, Jennifer Buth Bell, 2008 This practical guide to study skills instruction offers 29 complete lesson plans that can help you teach your students how to learn and improve their academic performance Lessons cover the key strategies of note taking summarizing using research tools including the Internet and test taking They incorporate full participation by students and continuous checking for understanding by the teacher which help students also improve their listening skills

Chemical news and Journal of physical science ,1868

A Pilot Standard National Course Classification System for Secondary Education ,1995

A Manual for Writers of Research Papers, Theses, and Dissertations, Eighth Edition Kate L. Turabian, 2013-04-09 A little more than seventy five years ago Kate L Turabian drafted a set of guidelines to help students understand how to write cite and formally submit research writing Seven editions and more than nine million copies later the name Turabian has become synonymous with best practices in research writing and style Her Manual for Writers continues to be the gold standard for generations of college and graduate students in virtually all academic disciplines Now in its eighth edition A Manual for Writers of Research Papers Theses and Dissertations has been

fully revised to meet the needs of today's writers and researchers. The Manual retains its familiar three-part structure beginning with an overview of the steps in the research and writing process including formulating questions, reading critically, building arguments, and revising drafts. Part II provides an overview of citation practices with detailed information on the two main scholarly citation styles: notes/bibliography and author/date. An array of source types with contemporary examples and detailed guidance on citing online resources. The final section treats all matters of editorial style with advice on punctuation, capitalization, spelling, abbreviations, table formatting, and the use of quotations. Style and citation recommendations have been revised throughout to reflect the sixteenth edition of *The Chicago Manual of Style*. With an appendix on paper format and submission that has been vetted by dissertation officials from across the country and a bibliography with the most up-to-date listing of critical resources available, *A Manual for Writers* remains the essential resource for students and their teachers.

A Practical Guide for Teachers of Students with an Autism Spectrum Disorder in Secondary Education Elaine Keane, Trevor Clark, Debra Costley, Kathleen Lane, 2012-05-15. This book has all the essential guidance and tools that anyone working in education will need to help students on the autism spectrum perform to their best potential and stay organized and on track with their school work. The book also covers general obstacles including social situations, anxiety, mental health, and the next steps after school.

Science Indiana Standards Manager
Grade 6 McDougal Littell, 2004

Note-taking for Consecutive Interpreting Andrew Gillies, 2014-07-16. Aimed at students of conference interpreting, whether on university and professional training courses or self-learners. *Note Taking for Consecutive Interpreting: A short Course* offers future interpreters a step-by-step guide to the skill of note-taking, which forms an essential part of consecutive interpreting. The system proposed, made up of a range of tried and tested techniques, is simple to learn, consistent, and efficient. This is a book which can be read at one sitting but is designed to be worked through over a number of months. Each chapter presents a technique together with examples, tasks, and exercises for the reader to complete. True to the motto 'learning by doing', the book uses English throughout, explaining how and where to locate material for other languages. It thus constitutes a course which offers student interpreters in any language combination a sound and adaptable base on which to build as they develop their skills. It will also be a valuable resource for interpreter trainers looking for innovative ways of approaching this core element of interpreter competence.

Research in Education, 1968-07 *Applied Language Learning*, 2004

Digital Distractions in the College Classroom Flanigan, Abraham Edward, Kim, Jackie HeeYoung, 2022-02-04. Student misuse of mobile technology for off-task purposes has become an international phenomenon in college classrooms. When a student's self-regulation of learning breaks down in the classroom or when their task motivation begins to wane, turning toward their digital devices for leisure purposes is often the result. Although numerous studies have independently examined student digital distraction in the context of the college classroom, there remains a need to organize the field's collective understanding of the phenomenon. *Digital Distractions in the College Classroom* explores the challenges

that arise from student digital distraction along with potential solutions including how mobile technology can be leveraged to improve student motivation self regulation of learning and achievement Addressing topics such as academic motivation and instructional design this book is ideal for instructional designers instructors researchers administrators academicians and students

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