

WEB QUEST ANSWER SHEET

I. Cells Alive Web site (<http://www.cellsalive.com/cells/animcell.htm>)

- 1) Two major differences between a plant and animal cell:
 - a) Plant cells have larger vacuoles and are rigid in shape because of the presence of cellulose in their cell wall.
 - b) Plants have a cell wall whereas animal cells only have a cell membrane.
 - c) Plant cells have chloroplasts (organelles that store/manufacture chlorophyll for photosynthesis).
- 2) Yes, plant cells do undergo mutations that may cause tumors (metastasis) to occur in cells.
- 3) Glossary of terms
 - Nucleus-organelle in any eukaryotic cell that holds genetic information for cell reproduction
 - Endoplasmic reticulum-network of organelles that have various functions within the cell; there are two known types; smooth and rough
 - Mitochondrion-provides energy to the cell
 - Vacuole-a sac found in cells to aid the cell in digestion and intercellular waste management

II. Starving Cancer segment (<http://www.pbs.org/wgbh/nova/cancer/program.html>)

- 1) Problems associated with chemotherapy:
 - a) Side effects
 - b) Cellular damage
 - c) Drug resistance of cancerous cells
- 2) Endostatin is an experimental drug that attacks cancer without attacking other cells. (0:00 – 2:30)
- 3) Angiogenesis is “an old fashioned term which means new blood vessel growth”

Cancer. What Causes Cancer?

(<http://www.schoolscience.co.uk/content/4/biology/abpi/cancer/cancer6.html>)

Glossary of terms:

Genetic mutation: “A mutation is simply a change in the structure of the cell’s **DNA**. Everybody has DNA that contains mutations and these mostly do not cause any problems because they are not part of the cell’s **genes**.” (Hyperlinks in this definition link directly to the meaning of these terms.

DNA: acronym used to refer to deoxyribonucleic acid, the molecule found in the nucleus of cells that contains genetic information about an organism.

Mitosis: is a cellular process of cell division/growth

Tumor: a tumor is a mass of abnormal cells. There are two general categories of tumor—benign (do not harm organs/tissue, examples include some types of fibroid) and malignant (these cells harm the organs/tissue in which they are found).

Solutions Webquest Answer Shet

Linda B. Nilson, Ludwika A. Goodson



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Access ,1999 **Brain-Based Teaching With Adolescent Learning in Mind** Glenda Beamon Crawford,2007-02-26

Finally a concrete resource for teaching adolescents the way they learn best Teachers of teens will not be particularly surprised by the latest research showing that the frontal lobe affecting reasoning and decision making skills is not fully developed in an adolescent s brain These educators know how challenging it is to provide students with a strong understanding of content as well as the necessary social and emotional skills for productivity social contribution and intellectual habits for learning In this second edition of Brain Based Teaching With Adolescent Learning in Mind Glenda Crawford shows you the newest research available on adolescent brain development and provides a structure for connecting the research to students social emotional and cognitive needs Crawford also presents how to strategies for motivating teens with inquiry relevance and collaboration as well as links to relevant Web sites This indispensable handbook includes Adolescent Centered Teaching ACT models in each chapter and sample standards based content lessons and scenarios Students will become progressively self directed as teachers learn to use a framework that demonstrates ways to Communicate essential content understandings Engage students with strategies for inquiry Promote metacognitive development social cognition self regulation and assessment Motivate students with authentic events problems and questions Support the transfer of learning to comparable and extended experiences Integrate technology into instruction to improve students learning experiences Classroom educators teacher leaders and preservice instructors will find lesson examples that can be easily differentiated for students with varying backgrounds levels of English proficiency prior knowledge abilities and interests

Mathematics : Applications and Concepts ,2004 *Online Teaching at Its Best* Linda B. Nilson,Ludwika A. Goodson,2021-06-16 Bring pedagogy and cognitive science to online learning environments Online Teaching at Its Best Merging Instructional Design with Teaching and Learning Research 2nd Edition is the scholarly resource for online learning that faculty instructional designers and administrators have raved about This book addresses course design teaching and student motivation across the continuum of online teaching modes remote hybrid hyflex and fully online integrating these with pedagogical and cognitive science and grounding its recommendations in the latest research The book will help you design or redesign your courses to ensure strong course alignment and effective student learning in any of these teaching modes Its emphasis on evidence based practices makes this one of the most scholarly books of its kind on the market today This new edition features significant new content including more active learning formats for small groups across the online teaching continuum strategies and tools for scripting and recording effective micro lectures ways to integrate quiz items within micro lectures more conferencing software and techniques to add interactivity and a guide for rapid transition from face to face to online teaching You ll also find updated examples references and quotes to reflect more evolved technology Adopt new pedagogical techniques designed specifically for remote hybrid hyflex and fully online learning environments

Ensure strong course alignment and effective student learning for all these modes of instruction Increase student retention build necessary support structures and train faculty more effectively Integrate research based course design and cognitive psychology into graduate or undergraduate programs Distance is no barrier to a great education Online Teaching at Its Best provides practical real world advice grounded in educational and psychological science to help online instructors instructional designers and administrators deliver an exceptional learning experience even under emergency conditions

Algebra 1, 2003 Philosophical Education Beyond the Classroom Markus Tiedemann, 2024-02-15 Didactics of philosophy and ethics demands problem based orientation and relevance for real life experiences However excursions extracurricular places of learning or outdoor education have hardly been taken into account A systematic exploration of possible cooperations synergy effects or incompatibilities has not yet been carried out The present volume attempts to close this gap and to create an initial basis for further research testing and discussion It is intended to make a contribution to teacher training at universities and study seminars as well as to exploratory research in subject didactics *Massage Therapy* Susan G. Salvo, 2015-04-13 Covering massage fundamentals techniques and anatomy and physiology Susan Salvo's *Massage Therapy Principles and Practice* 5th Edition brings a whole new meaning to the word comprehensive This student friendly text boasts more than 700 illustrations and expanded sections on neuroscience research and special populations plus new line drawings in the kinesiology chapter of origins and insertions that match the painted skeletons found in most classrooms It makes the essential principles of massage therapy more approachable and prepares you for success in class on licensing and board certification exams and in a wide range of therapeutic practice settings Clear straightforward approach simplifies complex content for easier understanding Complete anatomy and physiology section in addition to material on techniques and foundations gives you all the information you need in just one book Certification Practice Exam on Evolve mimics the major certification exams in format and content builds confidence and helps increase pass rates Over 700 high quality illustrations including line drawings and halftones clarify difficult concepts in vibrant detail Case studies challenge you to think critically and apply your understanding to realistic scenarios foster open mindedness and stimulate dialogue Profile boxes provide an inspirational real world perspective on massage practice from some of the most respected authorities in massage and bodywork Clinical Massage chapter focuses on massage in clinical settings like hospitals nursing homes and medical offices to broaden your career potential Two business chapters loaded with skills to make you more marketable and better prepared for today's competitive job market Video icons refer you to the Evolve site featuring about 120 minutes of video covering techniques routines client interaction sequences and case studies that facilitate the learning process and the practical application of the material Evolve icons listed in each chapter encourage you to go beyond the lecture and reading assignments and learn more on the Evolve site Evolve boxes at the end of each chapter list Chapter Extras found on Evolve that reinforce concepts learned in the chapter NEW Revised line drawing color scheme for origin and

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Guide to Free Teaching AIDS - 5th Educators Progress Service,2003-04 **Mosby's Pathology for Massage Professionals - E-Book** Susan G. Salvo,2021-09-05 Get complete massage pathology information in one convenient text Mosby s Pathology for Massage Professionals 5th Edition provides concise pathology information along with specific therapeutic recommendations Coverage of more than 300 pathologies shows you how to appropriately tailor treatment and more than 500 full color photographs make it easier to recognize common pathologies Written by massage therapy educator researcher and practitioner Dr Susan Salvo this resource provides the pathology knowledge you need to succeed in the classroom and in your career Coverage of more than 300 pathologies provides students with ample information without being overwhelming More than 500 full color photographs help students recognize common diseases and conditions Case studies in each chapter encourage students to apply their knowledge and develop clinical reasoning skills UNIQUE Hospital Based Massage chapter covers different protocols needed for massage therapists working in institutionalized care settings and provides useful information about working with clients who are medically fragile or in hospice care User friendly comprehensive format makes it easy to find key information with learning objectives a systems overview that includes the aging process and pathologies that feature descriptions etiologies signs and symptoms current treatment measures including medications in bold italics for easy identification and massage modifications UPDATED Refreshed artwork throughout the book visually reinforces key concepts and techniques UPDATED Information on the biopsychosocial model transmission based precautions and disinfection procedures for today s massage practice UPDATED Inclusion of sleep disorders opioids and CBD use by clients and their massage considerations UPDATED Addition of evidence based protocols for scar tissue constipation hypoglycemia and more UPDATED Detailed information on how to work with clients after surgery who have a colostomy amputations or who are on dialysis UPDATED Thoroughly reviewed and revised pathologies feature current research findings and reflect what students will encounter in today s massage therapy practice with a focus on evidence

informed practice Science Scope ,2002 *Differentiating Instruction With Menus* Laurie E. Westphal,2021-09-03

Differentiating Instruction With Menus Algebra I II offers high school math teachers everything needed to create a student centered learning environment based on choice This book uses five different types of menus that students can use to select exciting advanced level products that they will develop so teachers can assess what has been learned instead of using a traditional worksheet format Topics addressed include numbers algebra basics exponents graphs functions polynomials and various equations typically included in the algebra I II curriculum Differentiating Instruction With Menus Algebra I II contains attractive reproducible menus each based on the levels of Bloom s revised taxonomy as well as incorporating different learning styles These menus can be used to guide students in making decisions as to which products they will develop after studying a major concept or unit Grades 9 12 **Foreign Language Teaching and Information and Communication Technology** Barbara Lewandowska-Tomaszczyk,John Osborne,Frits Schulte,2001 This volume intends to offer guidelines for the utilisation of information and communication technology ICT in language study and teaching First chapters demonstrate how this general revolution has led to the emergence of a new educational paradigm in the context of digitally enriched learning environments including its design and implementation for literary or cultural studies The applications of ICT in language learning and the use of computers in SLA research are discussed in the next two chapters The final chapter introduces and discusses the scope and concepts of computational linguistics and corpus linguistics and their applications in lexicography translation and foreign language teaching It is also devoted to looking at ways in which computers can contribute to our understanding of what language is and what implications this knowledge can bring to linguistic practice and use **Pre-Algebra, Lesson Planning Guide** ,2002-05

Unveiling the Magic of Words: A Overview of "**Solutions Webquest Answer Shet**"

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