Guided Discovery Lesson Plan

Lesson: Magnifying Finger Prints

Length: 20-25 minutes

Grade Intended: 1st grade

Academic Standards:

Scientific Thinking 1.2.5: Demonstrate that magnifiers help people see things they could
not see without them.

Learning Objectives:

 Using magnifying glasses in partners, the students will identify at least three differences between their fingerprints.

Assessment: Students will be assessed on participation based on their "My Exploration Page" and interactions with their partners.

Advanced Preparation by Teacher:

- "My Exploration Page" copies should be made for each individual student.
- Magnifying glasses should be gathered, one for each individual student
- If desired, students could be put into pairs before lesson. (Otherwise, students can pair up during the lesson on their own.)

Procedure:

Introduction (ENGAGE): "Today we are going to do some exploring with a scientific tool." (Hold up magnifying glass.) "Does anyone know what this is called?" (Bloom's Knowledge) (Allow for student response.) "Where have you seen one of these before?" (Bloom's Knowledge) (Allow for student response.) "Today we are going to be looking at something that EVERYONE has and that is different for everyone. We are going to look at our fingerprints and compare them to a partner's fingerprints to see how they are alike and how they are different. However, fingerprints are pretty small—how do you think that we can look at them so that we can see all the tiny details?" (Bloom's Application) (Allow for student response.) "Yes! We are going to look at our fingerprints with magnifying glasses! My challenge to you is to find three differences between your fingerprint and your partner's fingerprint—using the magnifying glass to see the small differences too!"

Step-By-Step (EXPLORE):

1. Pass out a magnifying glass and "My Exploration Page" to each student.

Guided Discovery Lesson Plans

Jonathan Savage

Guided Discovery Lesson Plans:

TEFL Lesson Plans For Dummies Michelle M. Maxom,2014-10-06 Instant English lessons learn in a flash TEFL Lesson Plans For Dummies is a ready made course manual for TEFL teachers With fully fleshed out lessons activities tools games and resources this book contains what is essentially an instant TEFL course Use the ready made materials directly in the classroom or follow along with the detailed planning models and frameworks to grow your skills while designing your own lesson plans more effectively The book includes access to online materials you can print for use in class and the lessons can be used with or without the aid of technology in the classroom You ll find expert advice on teaching all age levels and class sizes including ideas for taking the lessons out into the world Many EFL ESL teachers have little or no experience and may have only been in the profession for a limited time TEFL Lesson Plans For Dummies saves the day with materials ideas and activities that can be implemented quickly and easily making lessons more productive and fun From quick exercises to larger scale plans this book contains hundreds of ways to help your students become more proficient English speakers Implement expertly designed planning models with step by step advice Teach lessons designed for students of all ages and classes of all sizes Integrate technology when it s available or do without it when it s not Move your lessons outside of the classroom for deeper immersion Whether you re taking a TEFL training course about to head out on your first job or a veteran of the field this book provides you with the tools you will need to get things moving in class If you re looking to cut down on planning time without sacrificing student engagement TEFL Lesson Plans For Dummies is the classroom ready resource you need

Lesson Plans for the Elementary PE Teacher Michael E. Gosset,2018-07-24 This new book provides PE teachers with practical lesson plans for teaching movement at every elementary grade level The book's movement and skill theme based approach which differs from the typical activity based approaches found in many schools helps students develop overall health and well being regardless of sports interests and hobbies Each lesson plan is broken down into subsections to illustrate the physical cognitive and affective benefits the central theme or concept to be explored the grade level and the equipment needed By sequencing these lesson plans so that students develop general body awareness and coordination before finer motor skills like throwing and catching the author offers a model of PE instruction that will promote healthy lifestyle choices long after graduation

ChatGPT in the Language Classroom Nik Peachey, 2023-05-24 In an era of digital transformation language teachers face a new realm of possibilities Introducing ChatGPT in the Language Classroom a comprehensive guide crafted specifically for educators seeking to revolutionize their teaching practices With over 50 meticulously curated lessons and spanning across 259 pages this book is a treasure trove of insights resources and strategies designed to enhance language learning experiences and empower teachers to elevate their skills Drawing on the cutting edge capabilities of ChatGPT an AI powered language model this book serves as a trusted companion assisting language educators in creating captivating lesson materials that foster engaging and interactive learning environments Explore

innovative approaches to curriculum development from crafting personalized exercises to designing real life scenarios that immerse students in authentic language usage Inside these pages you ll discover Lesson Planning Mastery Dive into the art of designing impactful lesson plans that cater to the unique needs and interests of your students Harness the power of ChatGPT to generate creative prompts interactive activities and dynamic assessments that ignite curiosity and drive meaningful language acquisition Authentic Language Experiences Break free from traditional textbook constraints and embrace real world language use Unleash ChatGPT s capabilities to simulate conversations role plays and scenario based simulations providing students with immersive language experiences that bridge the gap between theory and practice Teacher Skill Development Elevate your teaching prowess with comprehensive guidance on leveraging ChatGPT s potential to develop your own skills Discover how to utilize the model as a conversational partner a resource for language research and a tool for self reflection enabling continuous professional growth Empowering Student Autonomy Empower your students to take ownership of their language learning journey Uncover innovative ways to integrate ChatGPT as a virtual language tutor supporting learners beyond the classroom with personalized feedback language practice and cultural insights ChatGPT in the Language Classroom is not just a book it s a gateway to a new era of language education Embrace the future of teaching empower your students and unlock the full potential of technology in the language learning process With its comprehensive lessons practical examples and inspiring ideas this book is an invaluable resource for language educators ready to embark on a transformative teaching journey Lesson Plans Mills College. Mathematics & Science Teacher Summer Institute, 1992 Consists of lesson plans derived by students at the Mathematics and Science Teacher Summer Institute Mills College July 27 August 7 1992 **Teaching Science Through Discovery** Arthur A. Carin, 1993 The eighth edition of Teaching Science Through Discovery has been extensively revised not only to inform the reader of sweeping reforms in science education but also to provide some perspective and strategies to initiate these reforms in science classrooms Teaching Physical Education: 1st Online Edition (6th Edition) Muska Mosston & Sara Ashworth, 2008 This is the first online edition of Mosston and Ashworth's textbook This thoroughly revised and streamline edition offers teachers a foundation for understanding the decision making structures that exist in all teaching learning environments and for recognizing the variables that increase effectiveness while teaching physical education All chapters have been updated to include hundreds of real world examples concise charts practical forms and concrete suggestions for deliberate teaching so that teachers can understand their classrooms flow of events analyze decision structures and deliberately combine styles to achieve effective variations Building E-Portfolios Using PowerPoint Kathleen K. Montgomery, David A. Wiley, 2008-01-24 Building E Portfolios Using PowerPoint A Guide for Educators Second Edition addresses the use of e portfolios by pre and in service educators as a self assessment tool and as a way to measure their students performance The first half of the book explains what portfolios are what makes an electronic portfolio or e portfolio superior to physical

portfolios and how they should be organized The second half of the book addresses which computer programs can be used to build an e portfolio then presents detailed instructions on using Microsoft PowerPoint R to create effective visually rich portfolios The book is filled with pedagogy each chapter beginning with a conversation scenario to add relevance and meaning for the reader There are also numerous charts summaries a glossary and appendices A Student Resource CD with PowerPoint templates sample e portfolios and additional student resources is available Lesson Planning For Effective Learning Fautley, Martin, Savage, Jonathan, 2013-10-01 This book is about lesson planning which is an essential component of every teacher's practice Developmental Physical Education for All Children David L. Gallahue, Frances Cleland Donnelly, 2007-02 Grade level 1 2 3 4 5 6 7 k p e i t **Empowering Professional Teaching in Engineering John** Heywood, 2022-05-31 Each one of us has views about education how discipline should function how individuals learn how they should be motivated what intelligence is and the structures content and subjects of the curriculum Perhaps the most important beliefs that beginning teachers bring with them are their notions about what constitutes good teaching The scholarship of teaching requires that beginning teachers should examine evaluate these views in the light of knowledge currently available about the curriculum and instruction and decide their future actions on the basis of that analysis Such evaluations are best undertaken when classrooms are treated as laboratories of inquiry research where teachers establish what works best for them Two instructor centred and two learner centred philosophies of knowledge curriculum and instruction are used to discern the fundamental basic questions that engineering educators should answer in respect of their own beliefs and practice They point to a series of classroom activities that will enable them to challenge their own beliefs and at the same time affirm develop or change their philosophies of knowledge curriculum and instruction The Ultimate Student Teaching Guide Kisha N. Daniels, Gerrelyn C. Patterson, Yolanda L. Dunston, 2013-12-26 Concise and focused on practical strategies this engaging lighthearted guide provides teacher candidates a road map for negotiating the complex and diverse terrain of pre K through 12 schools while providing opportunities to develop the skills of reflection that are crucial to becoming a successful practitioner The Second Edition provides practical research based field tested strategies that student teachers can immediately apply as they encounter school concerns solve classroom challenges negotiate social conflicts and new to this edition navigate the job search and interview process Concluding chapters challenge readers to view student teaching as a process and to use reflection as a tool for professional growth Thoroughly updated throughout the Second Edition includes expanded coverage of workplace professionalism an introduction to accreditation and the Common Core standards and more **Exemplary Practices for Secondary Math Teachers** Alfred S. Posamentier, Daniel Jaye, 2007-03-15 Every year new secondary mathematics teachers take up positions in middle and high schools The luckiest novices receive assistance from a coach or mentor a master mathematics teacher who makes constructive comments models effective approaches and illuminates other practical aspects of teaching secondary math But many new teachers don't have

this advantage and must further their development on their own If you are one of these teachers this is the book you need In these pages veteran mathematics educators Alfred S Posamentier Daniel Jaye and Stephen Krulik present a treasure chest of ideas to guide new secondary math teachers through the challenging first few months and also provide more experienced teachers with interesting alternatives to familiar methods The topics covered include The most effective instructional practices The best uses of the textbook Designing successful lessons Creating homework that promotes learning Incorporating challenge Teaching reasoning and problem solving Strategies for assessment and grading Specific innovative ideas for teaching key concepts Options for extracurricular activities Long term professional enrichment and growth It s during the first few years of a teacher's experience that he or she develops the habits methods procedures and techniques that tend to define a career Exemplary Practices for Secondary Math Teachers provides both a foundation for excellence and a touchstone for years to come Note This product listing is for the Adobe Acrobat PDF version of the book Had Taught Maths: Reflections on research, conversations with experts, and 12 years of mistakes Craig Barton, 2018-01-01 I genuinely believe I have never taught mathematics better and my students have never learned more I just wish I had known all of this twelve years ago Craig Barton is one of the UK s most respected teachers of mathematics In his remarkable new book he explains how he has delved into the world of academic research and emerged with a range of simple practical effective strategies that anyone can employ to save time and energy and have a positive impact on the long term learning and enjoyment of students Craig presents the findings of over 100 books and research articles from the fields of Cognitive Science Memory Psychology and Behavioural Economics together with the conversations he has had with world renowned educational experts on his Mr Barton Maths Podcast and subsequent experiments with my students and colleagues

Lesson Planning Jonathan Savage, 2014-07-25 Lesson planning is an essential component of every teacher's practice. It is part of a three tiered integrated pedagogy planning teaching and evaluation Drawing on the work of skilful teachers and the latest research this book provides a rationale for lesson planning as an integral part of a teacher's work. It introduces the key concepts and skills of lesson planning and provides a practical framework for their development. The book helps the reader to make an informed choice about the approaches they use to plan lessons taking into account their subject area and the requirements of individual learners Covering all aspects of short medium and long term planning chapters include Writing Appropriate Learning Objectives and Outcomes Designing and Structuring Engaging Teaching Activities Resourcing the Lesson Assessing Students Learning Strategies for Personalised Learning Evaluating Your Lesson The book also includes practical and reflective activities to help the reader apply the ideas discussed to their own work and key questions to encourage the development of their skilful pedagogy This highly practical book is essential reading for trainee and practising teachers

Quality Lesson Plans for Outdoor Education Kevin Redmond, Andrew Foran, Sean Dwyer, 2010 Here outdoor leaders will discover an abundance of ideas that can make their jobs easier enrich their teaching knowledge and broaden

their current programmes A CD ROM also accompanies the book and allows users to search for and print only the lessons Frameworks for Integrated Project-Based Instruction in STEM Disciplines Anthony J. they plan to use Petrosino, Candace Walkington, Denise Ekberg, 2024-01-01 Frameworks for Integrated Project Based Instruction in STEM Disciplines presents an original approach to Science Technology Engineering and Mathematics STEM centric project based instruction We approach project based instruction from an engineering design philosophy and the accountability highlighted in a standards based environment We emphasize a backward design that is initiated by well defined outcomes tied to local state or national standards that provide teachers with a framework guiding students design solving or completion of ill defined tasks In project based STEM classrooms students investigate utilize technological tools construct artifacts participate in debates collaborate and make products to demonstrate what they have learned Features include deep coverage of four topics in PBI scaffolding student driven inquiry driving questions and development of lessons based on national and state standards This focus will ensure a deep understanding by the reader of project based instruction which will allow the reader to create strong and meaningful lesson experiences for their students An emphasis on student driven inquiry will be discussed including the importance of giving students the cognitive tools such as statistical analysis tools they need to research and inquire about the lesson topic A breakdown of what a successful driving question includes will be explained and examples given The book will include strategies for starting the lesson process with ending goals in mind by creating driving questions and breaking down state and national standards This book is strongly rooted in research in the learning sciences about project based instruction but will also be designed to be practically useful to teachers and teacher educators and researchers by bridging research and practice Learning to Teach Physical Education in the Secondary School Susan Capel, Joanne Cliffe, Julia Lawrence, 2020-10-05 This fully updated fifth edition of Learning to Teach Physical Education in the Secondary School is a comprehensive yet accessible guide for all student secondary physical education teachers Practical and insightful advice is combined with theory and research to support you in developing as a student teacher This core text is an ideal guide to support you in developing your knowledge for teaching your basic teaching skills and your ability to reflect critically on what you are doing and why enabling you to cope in a range of teaching situations Including updated material to cover changes in policy and practice curriculum and assessments the fifth edition of this essential textbook focuses on Starting and developing your teaching journey Planning teaching and evaluating physical education lessons for effective pupil learning Looking beyond your teacher education New chapters include Essential knowledge bases for teaching physical education Guidance on using digital technologies Health in the physical education lesson Written with university and school based initial teacher education in mind Learning to Teach Physical Education in the Secondary School is an essential source of support and guidance for all student physical education teachers embarking on the challenging journey of developing as an effective teacher Effective Strategies for Teaching in K-8 Classrooms Kenneth D.

Moore, Jacqueline Hansen, 2011-01-28 Featuring a wealth of reflection activities and connections to standards this concise easy to read teaching methods text equips students with the content knowledge and skills they need to become effective K 8 teachers The book maximizes instructional flexibility reflects current educational issues highlights recent research and models best pedagogical practices Current and realistic examples a section in each chapter on using technology in the classroom and material on differentiating instruction for diverse learners including students with special needs and English language learners make this a must have resource for any K 8 teacher <u>Dance Pedagogy</u> Amanda Clark, 2024-06-25 Dance Pedagogy is a comprehensive resource designed for dance students and teaching artists to develop skills and strategies in the multifaceted practice of teaching dance This invaluable resource features essential components and considerations necessary for the dance teacher in any setting including the private and community sector university setting and professional venues Five distinct units provide insight into the paradigm learning process class environment factors planning and delivery of the dance class in a broad context through the use of examples within the dance forms of ballet jazz modern tap and hip hop Readers intently explore cognitive and motor learning strategies for developing curricula and lesson plans and methods of delivering material to students Basic principles of anatomy understanding student behavior and participation the importance of diversity equity inclusion and accessibility IDEA music concepts for the dancer injury prevention and classroom management are included to provide a well rounded approach to the many challenges faced in the classroom Dance Pedagogy provides the most holistic approach available in the art of teaching dance and is a core textbook for academic courses related to Dance Teaching Methods as well as an invaluable handbook for practicing dance teachers

Survive and Thrive as a Physical Educator Alisa R. James, 2012-08-24 Stay energized and organized throughout your school year Survive and Thrive as a Physical Educator Strategies for the First Year and Beyond will help you face the unique challenges of teaching and support your development as a physical educator Practical and reader friendly Survive and Thrive as a Physical Educator is filled with the most current information plus examples based on the author's experiences as both a K 12 teacher and a college instructor who prepares future teachers You ll also find a wealth of information on handling day to day issues such as adapting to the work environment understanding the school culture communicating with parents and behavior management In addition sample letters and forms included in the book such as a typical letter to parents unit plan and PE contract offer models to use in creating your own Two appendixes provide quick access to suggested teacher resources and FAQs such as how to prepare for a substitute teacher and concerns about the tenure process Survive and Thrive as a Physical Educator offers strategies to help you get your gymnasium your equipment and yourself organized to begin the school year prepare your lessons and unit plans and deliver effective instruction for all students evaluate students progress establish rules and routines to promote good behavior and appropriate consequences for misbehavior employ a range of motivational techniques to encourage participation in your class develop positive relationships and effective

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