

Lab #	Lab	Estimated Time	Learning Questions	Essential Questions	Lab Content	Lab/Prep Time Standards	Content/Case Study Standards	MSL	Relevant to Other
1	Genetic Mutation	10 minutes	What is a mutation?		College Board AP Biology Standards (2019), Scientific Method - Lab Procedures, pH Testing	AP 1.C.1, 2.C.1, 2.C.2, 2.C.3, 2.C.4, 2.C.5, 2.C.6, 2.C.7, 2.C.8, 2.C.9, 2.C.10, 2.C.11, 2.C.12, 2.C.13, 2.C.14, 2.C.15, 2.C.16, 2.C.17, 2.C.18, 2.C.19, 2.C.20, 2.C.21, 2.C.22, 2.C.23, 2.C.24, 2.C.25, 2.C.26, 2.C.27, 2.C.28, 2.C.29, 2.C.30, 2.C.31, 2.C.32, 2.C.33, 2.C.34, 2.C.35, 2.C.36, 2.C.37, 2.C.38, 2.C.39, 2.C.40, 2.C.41, 2.C.42, 2.C.43, 2.C.44, 2.C.45, 2.C.46, 2.C.47, 2.C.48, 2.C.49, 2.C.50, 2.C.51, 2.C.52, 2.C.53, 2.C.54, 2.C.55, 2.C.56, 2.C.57, 2.C.58, 2.C.59, 2.C.60, 2.C.61, 2.C.62, 2.C.63, 2.C.64, 2.C.65, 2.C.66, 2.C.67, 2.C.68, 2.C.69, 2.C.70, 2.C.71, 2.C.72, 2.C.73, 2.C.74, 2.C.75, 2.C.76, 2.C.77, 2.C.78, 2.C.79, 2.C.80, 2.C.81, 2.C.82, 2.C.83, 2.C.84, 2.C.85, 2.C.86, 2.C.87, 2.C.88, 2.C.89, 2.C.90, 2.C.91, 2.C.92, 2.C.93, 2.C.94, 2.C.95, 2.C.96, 2.C.97, 2.C.98, 2.C.99, 2.C.100, 2.C.101, 2.C.102, 2.C.103, 2.C.104, 2.C.105, 2.C.106, 2.C.107, 2.C.108, 2.C.109, 2.C.110, 2.C.111, 2.C.112, 2.C.113, 2.C.114, 2.C.115, 2.C.116, 2.C.117, 2.C.118, 2.C.119, 2.C.120, 2.C.121, 2.C.122, 2.C.123, 2.C.124, 2.C.125, 2.C.126, 2.C.127, 2.C.128, 2.C.129, 2.C.130, 2.C.131, 2.C.132, 2.C.133, 2.C.134, 2.C.135, 2.C.136, 2.C.137, 2.C.138, 2.C.139, 2.C.140, 2.C.141, 2.C.142, 2.C.143, 2.C.144, 2.C.145, 2.C.146, 2.C.147, 2.C.148, 2.C.149, 2.C.150, 2.C.151, 2.C.152, 2.C.153, 2.C.154, 2.C.155, 2.C.156, 2.C.157, 2.C.158, 2.C.159, 2.C.160, 2.C.161, 2.C.162, 2.C.163, 2.C.164, 2.C.165, 2.C.166, 2.C.167, 2.C.168, 2.C.169, 2.C.170, 2.C.171, 2.C.172, 2.C.173, 2.C.174, 2.C.175, 2.C.176, 2.C.177, 2.C.178, 2.C.179, 2.C.180, 2.C.181, 2.C.182, 2.C.183, 2.C.184, 2.C.185, 2.C.186, 2.C.187, 2.C.188, 2.C.189, 2.C.190, 2.C.191, 2.C.192, 2.C.193, 2.C.194, 2.C.195, 2.C.196, 2.C.197, 2.C.198, 2.C.199, 2.C.200, 2.C.201, 2.C.202, 2.C.203, 2.C.204, 2.C.205, 2.C.206, 2.C.207, 2.C.208, 2.C.209, 2.C.210, 2.C.211, 2.C.212, 2.C.213, 2.C.214, 2.C.215, 2.C.216, 2.C.217, 2.C.218, 2.C.219, 2.C.220, 2.C.221, 2.C.222, 2.C.223, 2.C.224, 2.C.225, 2.C.226, 2.C.227, 2.C.228, 2.C.229, 2.C.230, 2.C.231, 2.C.232, 2.C.233, 2.C.234, 2.C.235, 2.C.236, 2.C.237, 2.C.238, 2.C.239, 2.C.240, 2.C.241, 2.C.242, 2.C.243, 2.C.244, 2.C.245, 2.C.246, 2.C.247, 2.C.248, 2.C.249, 2.C.250, 2.C.251, 2.C.252, 2.C.253, 2.C.254, 2.C.255, 2.C.256, 2.C.257, 2.C.258, 2.C.259, 2.C.260, 2.C.261, 2.C.262, 2.C.263, 2.C.264, 2.C.265, 2.C.266, 2.C.267, 2.C.268, 2.C.269, 2.C.270, 2.C.271, 2.C.272, 2.C.273, 2.C.274, 2.C.275, 2.C.276, 2.C.277, 2.C.278, 2.C.279, 2.C.280, 2.C.281, 2.C.282, 2.C.283, 2.C.284, 2.C.285, 2.C.286, 2.C.287, 2.C.288, 2.C.289, 2.C.290, 2.C.291, 2.C.292, 2.C.293, 2.C.294, 2.C.295, 2.C.296, 2.C.297, 2.C.298, 2.C.299, 2.C.300, 2.C.301, 2.C.302, 2.C.303, 2.C.304, 2.C.305, 2.C.306, 2.C.307, 2.C.308, 2.C.309, 2.C.310, 2.C.311, 2.C.312, 2.C.313, 2.C.314, 2.C.315, 2.C.316, 2.C.317, 2.C.318, 2.C.319, 2.C.320, 2.C.321, 2.C.322, 2.C.323, 2.C.324, 2.C.325, 2.C.326, 2.C.327, 2.C.328, 2.C.329, 2.C.330, 2.C.331, 2.C.332, 2.C.333, 2.C.334, 2.C.335, 2.C.336, 2.C.337, 2.C.338, 2.C.339, 2.C.340, 2.C.341, 2.C.342, 2.C.343, 2.C.344, 2.C.345, 2.C.346, 2.C.347, 2.C.348, 2.C.349, 2.C.350, 2.C.351, 2.C.352, 2.C.353, 2.C.354, 2.C.355, 2.C.356, 2.C.357, 2.C.358, 2.C.359, 2.C.360, 2.C.361, 2.C.362, 2.C.363, 2.C.364, 2.C.365, 2.C.366, 2.C.367, 2.C.368, 2.C.369, 2.C.370, 2.C.371, 2.C.372, 2.C.373, 2.C.374, 2.C.375, 2.C.376, 2.C.377, 2.C.378, 2.C.379, 2.C.380, 2.C.381, 2.C.382, 2.C.383, 2.C.384, 2.C.385, 2.C.386, 2.C.387, 2.C.388, 2.C.389, 2.C.390, 2.C.391, 2.C.392, 2.C.393, 2.C.394, 2.C.395, 2.C.396, 2.C.397, 2.C.398, 2.C.399, 2.C.400, 2.C.401, 2.C.402, 2.C.403, 2.C.404, 2.C.405, 2.C.406, 2.C.407, 2.C.408, 2.C.409, 2.C.410, 2.C.411, 2.C.412, 2.C.413, 2.C.414, 2.C.415, 2.C.416, 2.C.417, 2.C.418, 2.C.419, 2.C.420, 2.C.421, 2.C.422, 2.C.423, 2.C.424, 2.C.425, 2.C.426, 2.C.427, 2.C.428, 2.C.429, 2.C.430, 2.C.431, 2.C.432, 2.C.433, 2.C.434, 2.C.435, 2.C.436, 2.C.437, 2.C.438, 2.C.439, 2.C.440, 2.C.441, 2.C.442, 2.C.443, 2.C.444, 2.C.445, 2.C.446, 2.C.447, 2.C.448, 2.C.449, 2.C.450, 2.C.451, 2.C.452, 2.C.453, 2.C.454, 2.C.455, 2.C.456, 2.C.457, 2.C.458, 2.C.459, 2.C.460, 2.C.461, 2.C.462, 2.C.463, 2.C.464, 2.C.465, 2.C.466, 2.C.467, 2.C.468, 2.C.469, 2.C.470, 2.C.471, 2.C.472, 2.C.473, 2.C.474, 2.C.475, 2.C.476, 2.C.477, 2.C.478, 2.C.479, 2.C.480, 2.C.481, 2.C.482, 2.C.483, 2.C.484, 2.C.485, 2.C.486, 2.C.487, 2.C.488, 2.C.489, 2.C.490, 2.C.491, 2.C.492, 2.C.493, 2.C.494, 2.C.495, 2.C.496, 2.C.497, 2.C.498, 2.C.499, 2.C.500, 2.C.501, 2.C.502, 2.C.503, 2.C.504,	On-going	Protein A-L1 Foods, Plant Cell Safety, Labware	
2	Evolutionary	4 weeks (10)	What makes up a big bang?	1. What are the 3 major categories of organic molecules that make up living systems? 2. What are the 4 major chemical elements in organic molecules? 3. What are the chemical elements that make up carbohydrates, lipids, proteins, and nucleic acids? 4. What are the chemical and physical properties of carbohydrates, lipids, proteins and nucleic acids? 5. What are the chemical and physical properties of the 4 major classes of organic molecules? 6. What are the chemical and physical properties of the 4 major classes of organic molecules? 7. What are the chemical and physical properties of the 4 major classes of organic molecules? 8. What are the chemical and physical properties of the 4 major classes of organic molecules? 9. What are the chemical and physical properties of the 4 major classes of organic molecules? 10. What are the chemical and physical properties of the 4 major classes of organic molecules? 11. 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Etta R. Hollins



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Teacher-Made Assessments Christopher Gareis, Leslie W. Grant, 2015-03-24 Assessment is not only a measure of student learning but a means to student learning This bestselling book guides you in constructing and using your own classroom assessments including tests quizzes essays and rubrics to improve student achievement You will learn how to weave together curriculum instruction and learning to make assessment a more natural useful part of teaching Find out how to ensure your assessments are fair reliable and valid construct assessments that meet the level of cognitive demand expected of students create select response items and understand technology enhanced items that are increasingly being used on assessments use constructed response items and develop scoring criteria such as rubrics and analyze student results on assessments and use feedback more effectively This second edition features updated examples that reflect the Common Core State Standards as well as other content standards and new useful samples of teacher friendly techniques for strengthening classroom assessment practices No matter what grade level or subject area you teach this practical book will become your go to resource for designing effective assessments **Resources in Education** ,2000 *From Mandate to Achievement* Elaine Makas, 2009-09-14 Based on a five step model this guide helps school leaders establish the processes necessary to align curriculum to mandated standards develop curriculum maps and systematize instructional practices Over-Tested and Under-Prepared Bob Sornson, 2022-11-23 Pressured by standardized testing and rigid pacing guidelines many schools are forced to cover too much content too quickly without being able to meet the needs of individual students In this powerful book from acclaimed author and presenter Bob Sornson you ll learn how shifting from curriculum based instruction to competency based personalized learning can help students become more successful confident and engaged learners Each chapter is easy to digest and provides compelling research strategies and anecdotes to inspire conversation and action This second edition provides updated statistics and examples of schools successfully using competency based learning models to help you bring about meaningful change Teachers administrators and community leaders will all find practical resources and a clear rationale for transforming our current educational system into a new dynamic model of teaching and learning *A Case for Change in Teacher Preparation* Julie Gorlewski, Amanda Winkelsas, Suzanne N. Rosenblith, Corrie Stone-Johnson, Elisabeth Etopio, David Gorlewski, Tiffany Karalis Noel, Bobbie Finocchio, Amanda Seccia, Ling Zhai, Erin Kearney, Xiufeng Liu, Nooshin Shafaei, Tanika Shedrick, 2021-08-19 Why are preservice teachers often told by veteran teachers to forget what you learned in teacher preparation programs Why is there a gap between pedagogical practices employed at schools and those taught at colleges and universities And why after evidence from countless studies are there still so few teachers of color working in our rapidly diversifying schools These questions are addressed in this book which describes a reconceptualized teacher preparation program based on a teacher residency model This model is grounded in three core beliefs first that teacher quality is a shared responsibility between universities and school districts second that all

students have a right to high quality teachers who are as racially ethnically and linguistically diverse as the students they teach and third that for education to be transformative future educators must have the right balance of theoretical knowledge and practical experiences grounded in specific contexts Through a combination of rich description and qualitative and quantitative program data the authors make the case that university programs focused on the communities they serve can ensure more effective learner ready teachers who remain in the profession longer By providing a detailed blueprint for program development the contents of this book will be of value and interest to educational leaders policy makers and researchers

Exemplary Science in Grades 9-12 Robert Eugene Yager,2005 Essay titles reveal the range of programs and creativity this book encompasses The book ends with a summary chapter on successes and continuing challenges in meeting the Standards visions for improving high school science

Research in Education ,1968

The 4 X 4 Block Schedule J. Allen Queen,Kimberly Gaskey Isenhour,1998 This practical book shows you how to motivate and train teachers establish community support develop new classroom strategies and measure success of the 4 X 4 block schedule

Culture in School Learning Etta R. Hollins,2015-06-05 Challenging educators to better understand themselves and their students this text presents a powerful process for developing a teaching perspective that embraces the centrality of culture in school learning The six part process covers examining culture personalizing culture inquiring about students cultures and communities applying knowledge about culture to teaching formulating theory or a conceptual framework linking culture and school learning and transforming professional practice to better meet the needs of students from different cultural and experiential backgrounds All aspects of the process are interrelated and interdependent Two basic procedures employed in this process are presented constructing an operational definition of culture that reveals its deep meaning in cognition and learning and applying the reflective interpretive inquiry RIQ approach to making linkages between students cultural and experiential backgrounds and classroom instruction Pedagogical features in each chapter include Focus Questions Chapter Summaries Suggested Learning Experiences Critical Reading lists A Companion Website new for the Third Edition www.routledge.com/cw Hollins provides additional student resources

Common Core English Language Arts in a PLC at Work®, Grades 9-12 Douglas Fisherr,Nancy Frey,2013-01-09 Explore strategies for integrating the Common Core State Standards for English language arts for grades 9 12 in this resource which focuses on areas of instruction curriculum assessment and intervention You ll also learn how to implement the CCSS within the powerful PLC at Work™ process Critical chapter opening questions guide discussion and help you leverage the CCSS to optimize student learning

Designing and Teaching the Secondary Science Methods Course Aaron J. Sickel,Stephen B. Witzig,2017-04-13 The improvement of science education is a common goal worldwide Countries not only seek to increase the number of individuals pursuing careers in science but to improve scientific literacy among the general population As the teacher is one of the greatest influences on student learning a focus on the preparation of science teachers is essential in achieving these

outcomes A critical component of science teacher education is the methods course where pedagogy and content coalesce It is here that future science teachers begin to focus simultaneously on the knowledge dispositions and skills for teaching secondary science in meaningful and effective ways This book provides a comparison of secondary science methods courses from teacher education programs all over the world Each chapter provides detailed descriptions of the national context course design teaching strategies and assessments used within a particular science methods course and is written by teacher educators who actively research science teacher education The final chapter provides a synthesis of common themes and unique features across contexts and offers directions for future research on science methods courses This book offers a unique combination of behind the scenes thinking for secondary science methods course designs along with practical teaching and assessment strategies and will be a useful resource for teacher educators in a variety of international contexts

Teaching Science in the Block Alvin Pettus, Myron Blosser, 2014-01-09 This book provides detailed instructional strategies sample lesson plans and sample assessments to help science teachers make the best use of the additional time available in a block schedule

End-User Considerations in Educational Technology Design Roscoe, Rod D., Craig, Scotty D., Douglas, Ian, 2017-06-16 Emerging technologies have enhanced the learning capabilities and opportunities in modern school systems To continue the effective development of such innovations the intended users must be taken into account End User Considerations in Educational Technology Design is a pivotal reference source for the latest scholarly material on usability testing techniques and user centered design methodologies in the development of technological tools for learning environments Highlighting a range of pertinent topics such as multimedia learning human computer interaction and online learning this book is ideally designed for academics researchers school administrators professionals and practitioners interested in the design of optimized educational technologies

Supporting Teachers' Formative Assessment Practice with Learning Progressions Erin Furtak, 2017-10-05 This book presents the results of a four year National Science Foundation funded project that engaged nine high school biology teachers at three public high schools in long term on site professional development program centered on a learning progression It explores the influence of teacher participation in this professional development experience on their learning about student thinking formative assessment task design classroom practices and student learning Taking an in depth look at the multiple sources of data gathered as part of the study this volume reflects on the emergence of professional communities focused on formative assessment design and enactments and associations between teacher participation in learning progression centered professional development and student learning

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office, 1976 *The Standard Periodical Directory*, 2003 **Principal Leadership**, 2006 **Curriculum Review**, 1981 **Shaping Scientific Literacy in Every Elementary Classroom** Judith S. Lederman, Selina L. Bartels, Valarie Akerson, 2025-04-17 This textbook guides teachers in enacting science instruction that results in the cultivation of scientifically literate students in elementary school Prompting

discussions in the pre service environment around what it means to be scientifically literate this book helps teachers introduce children to their world through science and its impact on their daily lives Chapters show teachers how to design implement and assess inquiry based science instruction through lessons that authentically model real science investigating questions with multiple solutions and discussing how these lessons build students scientific literacy Sample lessons are modeled on research and tested practice while also recognizing the need to accommodate a diverse range of students and classroom contexts Ideal for pre service science teachers as well as in service professional development this book can be used in any elementary science methods course or wherever state or national standards require developing scientific literacy In helping teachers produce scientifically literate students it is a resource that enables students to have the content knowledge attitudes and abilities to see the role science plays in issues from the personal to the global

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