



Let's Grow a Plant!

Plants come in many shapes and sizes. Some are pretty in flower, some climb the balcony, a small plant can make beautiful flowers in a pot, and some plants are vegetables. Let's find out how the same thing grows and needs.

Plants start off as a tiny seed. The seeds come from the flower part of the parent plant. Inside the seed there is a tiny root and enough energy to keep it alive and grow into a plant. When the seed is planted in soil, the tiny root sends out a pipe for water and when the seed begins to grow it will start to use the soil. (water and air) you have seen this in the apple seedlings in the forest. When the seed is planted in the soil, it will start to grow and use the soil. When the seed is planted in the soil, it will start to grow and use the soil.

There are many different kinds of plants. Some are trees, some are flowers, some are vegetables. Some are small and some are big. Some are in the ground and some are in the air. Some are in the water and some are on the land. Some are in the ground and some are in the air. Some are in the water and some are on the land.

Plants need the sun, water, and soil. Plants need to be taken care of. The gardener, farmer, or scientist must take care of the plants. The gardener, farmer, or scientist must take care of the plants. The gardener, farmer, or scientist must take care of the plants.

Plants are very important to us. They give us food, they give us oxygen, and they give us shade. They are very important to us. They give us food, they give us oxygen, and they give us shade. They are very important to us. They give us food, they give us oxygen, and they give us shade.

Let's Grow a Plant!

Ready to Grow?
 • Get some soil
 • Get some seeds
 • Get some water
 • Get some sun
 • Get some love

And... Watch it Grow!

Find out what plants need to grow

What are the parts of a plant?

What do plants need?

Seed
nutrient food made
to feed new plant
until it grows leaves

flower
 *where seeds
 are made
 *bees pollinate
 the flower

where food is made for the plant from sunlight

QUESTION:
What do I need to
grow a plant?

creat

P₂ Post-Striving Plan		P₂ Post-Observations	
Name	Class	Date	Observer's Name

(Check one) YES _____ NO _____

creating and Improving

Large
spraw
or
bushy

Project Based Learning Plants Project

April Smith



Project Based Learning Plants Project:

Project-Based Learning William N. Bender, 2012-02-24 Increase achievement and engagement for all students in 21st century classrooms Project based learning has emerged as one of today's most effective instructional practices In PBL students confront real world issues and problems collaborate to create solutions and present their results This exciting new book describes how PBL fosters 21st century skills and innovative thinking The author provides instructional strategies assessment methods and detailed instruction on how to Design projects for various content areas across all grade levels Integrate technology throughout the learning process Use Khan Academy webquests wikis and more to foster deeper conceptual learning Build social learning networks Differentiate instruction by scaffolding supports for the learning process

Project Based Learning Made Simple April Smith, 2018-05-08 100 ready to use projects to challenge and inspire your third fourth and fifth graders Project Based Learning Made Simple is the fun and engaging way to teach twenty first century competencies including problem solving critical thinking collaboration communication and creativity This straightforward book makes it easier than ever to bring this innovative technique into your classroom with 100 ready to use projects in a range of topics including Science and STEM Save the Bees Class Aquarium Mars Colony Math Literacy Personal Budgeting Bake Sale Family Cookbook Language Arts Candy Bar Marketing Modernize a Fairy Tale Movie Adaptation Social Studies Build a Statue Establish a Colony Documenting Immigration

Project Based Learning: 72 Projects for

Homeschooling or Classroom Andreea Pavăl, 2024-08-29 Are you frustrated by traditional curriculums that stifle your child's creativity and fail to engage their curiosity If you're tired of rigid lesson plans that don't align with your educational philosophy this curriculum is your solution Featuring 72 adaptable projects designed for children aged 5-9 this resource allows you to tailor each activity to your child's unique learning level and style Covering essential subjects like Science Social Studies Art Health and Nutrition Technology and Engineering Mathematics Reading and Language Arts and Life Skills it's perfect for both homeschooling and classroom use Whether you're a homeschooling parent part of a co-op or an educator seeking to enrich your classroom this curriculum provides the tools you need to nurture your child's potential It's especially suited for families who embrace Montessori unschooling or project based learning offering the flexibility to align with your unique approach to education

A Companion To Interdisciplinary Stem Project-Based Learning Mary Margaret Capraro, Robert Capraro, 2016-07-18 This text contains 25 Project Based Learning PBL lessons written by a combination of undergraduate preservice teachers inservice teachers and graduate students Everyone who wrote a chapter strives to improve STEM education to help others implement standards based STEM instruction that takes learning in isolation to greater accountability through integrated and meaningful tasks that answer the question every teacher dreads When am I going to use this The PBLs were written to implement in middle and high school classrooms All of them are interdisciplinary in nature We have divided them into six themes construction and design water environment mixtures technology nutrition

and genetics Each lesson contains a schedule at a glance and the well defined outcome so you can quickly see how a particular PBL fits into your curriculum Objectives are listed along with STEM connections written as objectives We have included all materials needed and then each day of activities including an imbedded engagement exploration explanation evaluation including rubrics and extension We have tried to include everything necessary for successful implementation This practical book is the perfect companion to the handbook for learning about implementing PBLs Project Based Learning An Integrated Science Technology Engineering and Mathematics STEM Approach second edition The Garden Project - Teacher's Manual Angelica Manca,2016-01-01 Become a specialist in teaching for Sustainability with the Teacher s Manual guiding you through activities that gauge students progress develop critical thinking and enhance the quality of questions asked to bring the learning to life The Garden Project Teacher s Manual provides teachers with extensive instructional guidance to apply inquiry based learning starting in the early years in addition to rediscovering the joy excitement and mystery of the world we live in This 212 page manual gives you as teachers the complete step by step guide of how to implement The Garden Project in your classroom A PBL program The Garden Project applies a cyclical educational model within the STEAM framework in the exploration of Nature from seed to table back to seed Starting for children ages 3yrs

STEM Project-Based Learning Robert M. Capraro,Mary Margaret Capraro,James R. Morgan,2013-04-20 This second edition of Project Based Learning PBL presents an original approach to Science Technology Engineering and Mathematics STEM centric PBL We define PBL as an ill defined task with a well defined outcome which is consistent with our engineering design philosophy and the accountability highlighted in a standards based environment This model emphasizes a backward design that is initiated by well defined outcomes tied to local state or national standard that provide teachers with a framework guiding students design solving or completion of ill defined tasks This book was designed for middle and secondary teachers who want to improve engagement and provide contextualized learning for their students However the nature and scope of the content covered in the 14 chapters are appropriate for preservice teachers as well as for advanced graduate method courses New to this edition is revised and expanded coverage of STEM PBL including implementing STEM PBL with English Language Learners and the use of technology in PBL The book also includes many new teacher friendly forms such as advanced organizers team contracts for STEM PBL and rubrics for assessing PBL in a larger format

Developing Natural Curiosity through Project-Based Learning Dayna Laur,Jill Ackers,2017-02-17 *Developing Natural Curiosity through Project Based Learning* is a practical guide that provides step by step instructions for PreK 3 teachers interested in embedding project based learning PBL into their daily classroom routine The book spells out the five steps teachers can use to create authentic PBL challenges for their learners and illustrates exactly what that looks like in an early childhood classroom Authentic project based learning experiences engage children in the mastery of twenty first century skills and state standards to empower them as learners making an understanding of PBL vital for PreK 3 teachers

everywhere *Enquiry and Project Based Learning* David Leat, 2017-04-21 Many teachers schools parents and community organisations feel that standards education is not serving us well It has proved ineffective at preparing many students for work higher education and general wellbeing nor does it keep students engaged and intrinsically motivated capable of sustaining interest in education and learning There is a suppressed desire to transform educational outcomes and enquiry based learning EBL and project based learning PBL are the prime candidates for achieving such a goal EBL is education that is driven by curiosity questions and problem solving with the capacity to produce results that are equal to or better than standard outcomes This new text provides a critical examination of EBL and PBL by exploring a wide range of international exemplars and considering the benefits barriers and contradictions generated by the efforts of teachers and schools Focusing on analytical frameworks and socio cultural theory areas covered include enquiry and society what EPBL is learning through enquiry challenges for schools and teachers student outcomes and assessment teacher learning curriculum development Enquiry and Project Based Learning offers analytical frameworks and practical guidance for students teachers and all those interested in enquiry based learning as well as presenting a balanced purposeful and motivating alternative to mainstream educational practice **The Power of Project-Based Learning** Scott D. Wurdinger, 2016-07-18 Project based learning is a teaching approach that motivates and inspires students to learn and helps them to become self directed learners over time Students learn not only the content surrounding their projects but also important life skills such as problem solving creativity collaboration communication time management and responsibility Author Scott Wurdinger has implemented this approach over the past ten years in his own classrooms has conducted numerous research studies on this topic and has seen the effectiveness of project based learning firsthand This book provides information on the history research and application of the project based learning approach and should be read by educators who want to change their classrooms into dynamic exciting learning environments Educators will learn everything they need to know about how to implement this approach in their classrooms as well as how to help students create meaningful relevant projects that can help impact and solve school community and even global problems Read this book and bring project based learning to your classroom **Reinventing Project Based Learning** Suzie Boss, Jane Krauss, 2018-11-14 This updated edition of the bestselling Reinventing Project Based Learning offers examples of the latest tools assessment strategies and promising practices poised to shape education in the future This popular ISTE title follows the arc of a project providing guided opportunities to direct and reflect educators own learning and professional development This book shows how to design authentic projects that make the most of available and emerging technologies This new edition Provides examples of how to merge personalized learning flipped classrooms and PBL for effective teaching and learning Includes coverage of computational thinking and coding demonstrating ways to develop new approaches to solving problems as well as new forms of expression Discusses PBL as an equity consideration with opportunities for personalization and empowerment addressing issues of social justice and closing the achievement gap

Includes coverage on new trends like augmented and virtual reality and new and updated Spotlights from educators featured in the first edition and others Features deeper focus on Gold Standard and High Quality PBL the P21 Framework and ISTE Standards for Students and Educators With this book teachers will come to appreciate the importance of problem finding and problem posing thoughtful activity that needs to precede problem solving in any context The companion jump start guide based on this book is Project Based Learning Strategies and Tools for Creating Authentic Experiences Audience K 12 classroom teachers teacher educators

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