

## Resources – Preschool, Year 1, Year 2 – a disorganized list of links!

A couple of years ago I spent a few hours finding links to activities suitable for preschool, Year 1 and Year 2. It is a disorganized list as I never got around to sorting the activities under subject headings or themes. With luck most of the links are still active and this file will give families just starting out with homeschooling young children ideas for what they can do with their children, and how easy it is to find really wonderful resources online.

<https://hobbyhelp.com/kids/activities/>

<https://leftbraincraftbrain.com/28-days-of-steam-projects-for-kids/>

<http://pindex.com/user/home> - a pinterest style board

International Cloud Atlas <https://cloudatlas.wmo.int/home.html>

Printable packets <http://www.123homeschool4me.com/p/home-school-free-printables.html>

nature study free units <http://handbookofnaturestudy.blogspot.com/>

<https://tinkerlab.com/science-projects/>

### Science for Kids

- [Animal Cells \(Edible!\) K-6th](#)
- [Animal Report Forms K-8th](#)
- [Crystals – How to Grow Crystals K-6th](#)
- [Hatching Butterflies K-6th](#)
- [How to Make a Lava Lamp – K-6th](#)
- [Why do Leaves Change Colors K-6th](#)
- [Homemade Battery Experiment K-6th](#)
- [Pop Rock Science Experiment K-6th](#)
- [Simple Machines – Inclined Planes](#)
- [Solar System Worksheets](#)
- [Squishy Circuits \(PreK-6th\)](#)
- [Weather Unit \(free printable unit\) K-3<sup>rd</sup>](#)
- <https://www.teachingwithoutchairs.com/> - unit themes for K-6

The Soil Story the Road to Regenerative Agriculture Teaching Curriculum (lesson plans)

[https://kisstheground.com/wp-content/uploads/2019/04/Soil-Story-Curriculum\\_Aus\\_190311-1.pdf](https://kisstheground.com/wp-content/uploads/2019/04/Soil-Story-Curriculum_Aus_190311-1.pdf)

Growing food from scraps

<https://www.facebook.com/officialgoodful/videos/1890922724311518/UzpfSTYwNjAyODMyODoxMDE1NjI4NTQ5ODY2ODMyOQ/?source=bookmark>

Preschool physical education, Sports themed activities

<http://preschoolpowolpackets.blogspot.com/2014/05/sports-theme-preschool-lesson.html>

## Preschool Geography

Discover the World with STEP, explore geography through projects and activities

<http://preschoolpowolpackets.blogspot.com/2016/11/geography-around-world-through-stem.html>

## Preschool English

Poetry <http://preschoolpowolpackets.blogspot.com/2012/04/free-poetry-unit-for-preschoolers.html>

## Preschool science

Turtle Stem Challenge <http://preschoolpowolpackets.blogspot.com/2016/02/inspired-by-dr-seuss-turtle-science.html>

Polar Bear Stem Exploration <http://preschoolpowolpackets.blogspot.com/2016/01/polar-bear-science-experiment-stem.html>

Penguin Feather STEM Challenge <http://preschoolpowolpackets.blogspot.com/2016/01/penguin-feather-science-STEM.html>

Ancient Greek Architecture STEM Challenge

<http://preschoolpowolpackets.blogspot.com/2016/09/ancient-greek-architecture-stem.html>

## Space

<http://preschoolpowolpackets.blogspot.com/2017/07/space-activities-for-preschool-space.html>

Ocean themed activities

<http://preschoolpowolpackets.blogspot.com/2017/03/awesome-preschool-ocean-theme.html>

## Year 1 Technology

Architecture – Eiffel Tower STEM Challenge

<http://preschoolpowolpackets.blogspot.com/2016/01/penguin-feather-science-STEM.html>

## Year 1 maths

How big are you? Measure your body

<http://www.planetsmarty.com/2016/02/human-body-math.html>

Year 2 Lego Maths – estimating, counting, probability

<http://www.planetsmarty.com/2016/01/estimating-and-probability-with-legos.html>

## Year 1 Science

Create an edible sedimentary rock model!

<http://preschoolpowolpackets.blogspot.com/2016/03/stem-challenge-sedimentary-rocks-model.html>

Geology Rocks! Lesson Plans and Student Notebook

<https://drive.google.com/file/d/1avGLr21OGLcA669Etor8IAXg2TzoeVZB/view>

## Galaxy Art

<http://preschoolpowolpackets.blogspot.com/2016/07/galaxy-art-science.html>

## Human Body Unit

<https://www.livinglifeandlearning.com/human-body-printables-for-kids.html>

<https://www.theottoolbox.com/2016/02/bone-identification-movement-activity.html>

What's Inside Your Blood

<http://preschoolpowolpackets.blogspot.com/2016/02/Whats-Inside-Your-Blood-An-Edible-Model.html>

Parts of the Eye Painting

<http://www.stillplayingschool.com/2016/02/parts-of-eye-lesson-kids.html>

5 Senses Unit

[https://www.123homeschool4me.com/5-senses-unit\\_86](https://www.123homeschool4me.com/5-senses-unit_86)

Learn about your taste buds

<https://www.lookwerelearning.com/learning-about-taste-buds/>

10 Simple fun science experiments (DIY Science Kit, instruction cards)

<http://preschoolpowolpackets.blogspot.com/2015/11/diy-gift-science-kit-for-kids-with-free.html>

Year 2 Science

Edible Atom Models

<http://preschoolpowolpackets.blogspot.com/2016/07/chemistry-for-kids-edible-atom-models.html>

Animals – Spiders Unit Study (Lapbook)

<http://preschoolpowolpackets.blogspot.com/2015/10/free-spider-lap-book.html>

Chart the moon's phases

<http://preschoolpowolpackets.blogspot.com/2016/03/free-moon-phase-tracking-printable.html>

<https://imaginationsoup.net/40-stem-ipad-apps-for-kids-science-technology-engineering-math/>

<https://www.teachingideas.co.uk/>

HISTORY

<https://www.timetoast.com/timelines/australian-history-1800s-to-present>

TECHNOLOGY

Foam Glider Aeroplanes

<https://www.adventure-in-a-box.com/diy-foam-glider-airplane-with-printable-pattern-design/>

Make you own video ad: <https://teachmama.com/kids-make-their-own-commercials-creative-techy-fun/>

Lego stop go animation <http://www.mykidsadventures.com/stop-motion-video/>

Make a movie older kids <https://www.instructables.com/id/Make-A-Stop-Motion-Animation-For-Beginners/>

[http://www.makerspaceforeducation.com/uploads/4/1/6/4/41640463/stop-motion-animation\\_digital-storytelling-in-the-classroom.pdf](http://www.makerspaceforeducation.com/uploads/4/1/6/4/41640463/stop-motion-animation_digital-storytelling-in-the-classroom.pdf)

Developing a storyboard <http://onf->

[nfb.gc.ca/medias/download/documents/pdf/Prod\\_Stopmo\\_L4\\_ANG\\_ib\\_05.pdf](nfb.gc.ca/medias/download/documents/pdf/Prod_Stopmo_L4_ANG_ib_05.pdf)

[http://1-minutefilmcompetition.org/resources/toy\\_stories\\_-\\_stop-motion\\_adventures\\_in\\_the\\_classroom.pdf](http://1-minutefilmcompetition.org/resources/toy_stories_-_stop-motion_adventures_in_the_classroom.pdf)

Year 1 Algorithm Coding Game

<https://littlebinsforlittlehands.com/printable-algorithm-coding-game-stem-kids/>

Year 2 Take apart a computer

<https://littlebinsforlittlehands.com/kids-take-apart-computers-upcycled-stem-activity/>

Year 2 Hot Dog Coding Game

<https://igamemom.com/5-crucial-computer-coding-skills-teach-kids-at-home/>

Year 3 Codecademy for learning how to write computer code

<https://www.codecademy.com>

Year 3 Fix the Factory LEGO Mindstorms game that helps kids learn how to code

<https://www.lego.com/en-us/games/apps/lego-mindstorms-fix-factory-0c66fb25259241c587e6b7be38f2f510>

Year 2 Advance pattern activities for helping to understand coding basics

<https://www.giftofcuriosity.com/advanced-patterns-worksheets/>

Year 3 Introduction to binary code game – Coding Puzzle Crackers

<https://www.steampoweredfamily.com/activities/ascii-binary-code-puzzle-game/>

Year 2 Using a stop watch – speed racer stem activity

<https://www.livinglifeandlearning.com/speed-racer-stem-activity.html>

Year 1 Build a Leprechaun (or fairy, or dinosaur) trap

<http://www.planetsmarty.com/2014/02/design-and-build-a-leprechaun-trap.html>

Year 2 Build a boat that really floats

<http://www.planetsmarty.com/2013/10/design-and-build-boat-that-floats.html>

Year 2 Make a propeller powered car (force)

<https://www.instructables.com/id/Propeller-Powered-Car/>

Year 4 Make a bristle bot

<https://www.evilmadscientist.com/2007/bristlebot-a-tiny-directional-vibrobot/>

Year 1 marble run ideas

<https://buggyandbuddy.com/10-awesome-homemade-marble-runs/>

Year 4 Build a frozen roman arch, or an igloo

<http://almostunschoolers.blogspot.com/2014/05/ice-cube-roman-arch.html>

Year 2 Engineering Challenge – protect an egg falling from a height

<http://www.planetsmarty.com/2014/04/engineer-this-protect-an-egg.html>

Year 3 Build a rocket powered lego car

<https://frugalfun4boys.com/build-rocket-powered-lego-car/>

Year 4 parabolic solar cooker shoebox

<http://almostunschoolers.blogspot.com/search/label/real%20world%20math>

Year 4 Build a LEGO chariot that always points south... without using any magnet! - a project

Year 1 simple machines How much weight can a LEGO pulley lift? Can you construct a LEGO pulley that is able to lift a pound of weight?

Year 3 Make a LEGO Drawing Bot

<http://www.planetsmarty.com/2014/08/how-to-make-lego-drawbot.html>

Year 6 Mini-spin art machine <http://makezine.com/projects/spin-art-machine/>

Year 5 lego mini spin art machine <http://www.planetsmarty.com/2015/06/how-to-build-lego-spin-art-machine.html>

Force gravity and inclines – Lego Zip Line <http://littlebinsforlittlehands.com/lego-zip-line-homemade-toy-zip-line-kids/>

Build a balloon powered car <https://www.science-sparks.com/balloon-powered-lego-car/>

LOTS OF SCIENCE TECH LINKS/ideas

<http://almostunschoolers.blogspot.com/search/label/science%20projects>

Magnets defy gravity <https://www.science-sparks.com/how-to-defy-gravity/>

Year 2 elasticity make a cotton reel car <https://www.science-sparks.com/2013/06/07/cotton-reel-car/>

Year 4 Energy efficient window treatment science fair

<https://www.schoolingamonkey.com/energy-efficient-window-science-fair-project/>

Year 1 Magic Bag Piercing Trick – polymers

<https://tinkerlab.com/magical-plastic-bag-experiment/>

Year 1 Melting Ice Experiment

<https://www.thechaosandtheclutter.com/archives/melting-ice-experiment>

Year 2 Water Colour Houses STEM ART activity

<https://leftbraincraftbrain.com/watercolor-paper-houses-steam-activity-for-kids/>

Year 2 Volcano Valentine Card and Gift to make

<https://www.kcedventures.com/blog/valentines-day-activities-with-printable>

Year 3 How do mountains form

<https://www.thechaosandtheclutter.com/archives/how-fold-mountains-are-made>

Year 1 Baked Potato science fair

<https://leftbraincraftbrain.com/fastest-way-bake-potato-baked-potato-science-fair-project/>

Year 2 build a potato battery and a lemon batter

<https://www.steampoweredfamily.com/activities/potato-battery-circuit-stem-activity-science-fair/>

<https://www.steampoweredfamily.com/activities/lemon-battery-science-experiment-for-kids/>

Year 1 Density experiment using LEGO, lava lamp,

<https://www.science-sparks.com/floating-and-density/>

Year 2 Density Science/magic trick

<https://www.science-sparks.com/magic-and-density/>

<https://www.science-sparks.com/water-balloons/>

Preprimary Sinking and Floating

<https://www.science-sparks.com/sinking-and-floating/>

Year 2 STEM engineering challenge

<http://www.planetsmarty.com/2014/04/lego-egg-racers.html>

Year 1 Slime <https://tinkerlab.com/easy-contact-solution-glitter-slime/>

Year 1 Fun experiments with vinegar and baking soda <https://tinkerlab.com/fun-science-experiments-vinegar-baking-soda/>

Optical illusions <https://tinkerlab.com/ok-gos-writings-wall-optical-illusions/>

Year 1 Magic Potion Lab experiments <https://tinkerlab.com/how-to-set-up-a-magic-potion-lab/>

Year 1 How to make egg geodes (growing crystals) <https://tinkerlab.com/experiment-egg-geodes/>

Year 1 Elephant toothpaste <http://preschoolpowolpackets.blogspot.com/2012/01/science-experiment-elephant-toothpaste.html>

Preschool – celery experiment <https://tinkerlab.com/celery-experiment/>

Year 1 properties of liquids viscosity what will freeze first?

<https://www.notimeforflashcards.com/2013/08/kitchen-science-for-kids.html>

Year 1 How to make a cloud in a jar – condensation and evaporation

<https://www.notimeforflashcards.com/2015/03/make-cloud-jar-kitchen-science.html>

Year 1 properties of solids – melting crayons in the sun

<https://www.notimeforflashcards.com/2009/07/melting-crayons.html>

Investigate the force needed to break an egg shell <https://www.science-sparks.com/how-strong-is-an-eggshell/>

Force – needed to knock over stable structures that the child builds <https://www.science-sparks.com/stability-of-structures/>

Centrifugal force – why do get dizzy <https://www.science-sparks.com/the-basic-science-of-roundabouts-and-why-you-feel-dizzy/>

Force – why circles are stronger than rectangles <https://www.science-sparks.com/how-can-you-stand-on-a-paper-cup-without-breaking-it/>

Trajectories and rockets <https://www.science-sparks.com/shooters/>

Air pressure experiments <https://www.science-sparks.com/oxygen-and-air-pressure/> and <https://www.science-sparks.com/coin-poppers/> and <https://www.science-sparks.com/egg-in-a-bottle/>

MATHS : More math activities from Gift of Curiosity:

- [Building a 3D rainbow measurement activity](#)
- [Advanced sorting with Venn diagrams](#)
- [Adding with chain links](#)
- [Matching and ordering by size](#)
- [Teaching combinations of 10](#)
- [Estimating an apple's circumference](#)
- [Introduction to probability](#)
- [Math practice with numbered dice](#)
- [Put the numbers on the clothesline](#)
- [Road numbers](#)

Year 2 strategy game Fox and Goose

<https://www.whatdowedoallday.com/fox-and-geese/>

Media Kids lesson year 4 <http://mediasmarts.ca/lessonplan/media-kids-lesson>

CRAFT/ART

easy finger knitting <https://www.youtube.com/watch?v=NulgNzKp1LY>

Woven CD Dream Catcher <http://www.pinkstripeysocks.com/2015/06/kid-art-cd-weaving-dreamcatcher-craft.html>

paper plate woven flower <https://www.redtedart.com/paper-plate-weaving//>

simple sewing with felt <https://www.bhg.com/crafts/kids/rainy-day/kids-felt-crafts/>

make a simple rainbow or Christmas wreath from scrap fabric <https://www.teach-me-mommy.com/rainbow-scrap-fabric-wreath/>

make a [bird's nest](#)

create a [construction challenge](#) for your children

- Design and make a home for a pet, or a [pet hotel!](#)

Design and build a [bush shelter](#)

Make a [home for native bees](#) year 1

Make a home for native bees year 2

Simple woodworking project: [bird house](#)

### [Cardboard ball maze](#)

MATHS - Pet Store

{Dramatic Play, Literacy, Social Skills}

Children made pet food, dog houses, pet toys, and leashes to sell in their pet store. A cash register with play money, paper, and pencils were added and the children wrote receipts and price tags for the items.

HEALTH & PHYSICAL

Pretend to be animals As a few dog commands are called out (fetch, sit, lie down, roll over, bark, beg, come, etc.), the children act them out.

- [10-Minute Homemade Butter in a Jar](#)
- [Coffee Can Ice Cream](#)
- [Turning Grapes into Raisins](#)

SCIENCE

- Make crystalised paperweight pebbles <https://happyhooligans.ca/crystallized-beach-rocks-with-borax-watercolourstercolours/>
- Gravity Pour Painted Rock paperweights <https://happyhooligans.ca/pour-painted-paper-weights-beach-stones/>
- Ocean in a bottle <https://happyhooligans.ca/ocean-in-bottle/>
- Mirror play <https://happyhooligans.ca/mirror-play-ways-to-play-learn-with-mirrors/>
- Nature play – potions and perfumes <https://happyhooligans.ca/pretend-play-perfume-factory-activity/>
- [DIY Water Wall & Sand Wall](#)



- [Magic Milk Colour Explosion](#)
- [Homemade Giant Bubble Recipe](#)
- [2-Ingredient Goop Recipe \(or Ooblek\)](#)
- [Making Crystals with Borax and Pipe Cleaners](#)
- [Expanding Ivory Soap Experiment](#)
- [Fizzing Colours: Baking Soda and Vinegar Experiment](#)
- [3 Chemical Reaction Experiments for Preschoolers](#)
- [Melting Elsa's Frozen Hands](#)
- [Building Colourful Backyard Ice Sculptures](#)
- [Dino Dig Excavation](#)
- Make a DIY Dino Erupting Egg! <http://pagingfunmums.com/2013/05/15/diy-dinosaur-eggs/>
- [Melting Ice with Salt and Water](#)
- [Ice Age Bin](#)
- [Frozen Fractals Soup](#)
- [Frozen Fractals Ice Sculptures](#)
- [Melting Heart with Salt and Watercolours](#)
- [Melting Halloween Hands](#)

#### **Water-Science Activities and Experiments:**

- [3-Ingredient Ocean in a Bottle](#)
- [Sink or Float Experiment](#)
- [Water Displacement Experiment](#)
- [Colour Laboratory](#)
- [Water Works Activity](#)
- [Garden Soup](#)
- [Fairy Soup](#)

## ART

- [Coloured Ice Pop Painting](#)
- Self Portrait Nature Art <https://happyhooligans.ca/nature-faces/>
- [Salt Glue and Water Colour Experiment](#)
- [Paper Towel Dip](#)
- [Paper Towel Art with Markers & Water](#)
- [Paper Towel Drip Art with Liquid Watercolours](#)
- [Cotton Pad Art](#)
- [Colouring the Snow with Watercolours](#)
- [Homemade Watercolour Paint Pucks](#)
- [Homemade Liquid Watercolour Paints](#)
- [Wax Resist Thank You Cards](#)
- [3-Ingredient Puffy Paint](#)
- [Tie Dye Technique with Sharpies and Rubbing Alcohol – Book Marks](#)
- [Melted Crayon Art](#)
- [Polly Pocket Ice Painting Activity](#)

## Sensory-Science Activities:

- [Nature Goop](#)
- [2-Ingredient Cloud Dough](#)
- [3-Ingredient Ghost Mud](#)
- [Fairy Mud](#)
- [“Frozen” Clean Mud](#)
  - Make [God’s Eye ornaments](#). A classic kids’ craft for 5-10 year olds.
  - Make [marbled paper](#) and turn it into wrapping paper or greeting cards.

- Make good luck stones <https://happyhooligans.ca/good-luck-stones-kids-afraid-anxious/>
- Make [homemade watercolour disks](#) for painting.
- Make [homemade liquid watercolours](#) too!
- <https://meaningfulmama.com/day-202-plastic-perler-bead-bowls.html>
- <https://happyhooligans.ca/paper-mache-bowls-for-mothers-day/>
- <https://happyhooligans.ca/scratch-art-family-portrait-for-kids-to-make-and-give/>
- Who knew you could make your own [decorative glass bead magnets](#) using your kids' artwork? "Hand Made Kids Art" shows you how.
- Kids big and small will love the technique used to make [a set of tape-resist coaster or trivets](#). – Woods of Bell Trees
- Mosaic picture frames <http://www.pinkstripeysocks.com/2013/06/painted-mosaic-styrofoam-tile-picture.html>
- <http://kidsactivitiesblog.com/16045/glass-gem-sun-catcher-craft>

#### DANCE

<https://happyhooligans.ca/homemade-twirling-ribbon-sticks/>

#### MUSIC

make musical instruments <https://happyhooligans.ca/homemade-musical-instruments-for-kids/>

Rainbow windchimes <https://happyhooligans.ca/homemade-wind-chimes/>

#### HEALTH

##### Chores

Doing the laundry game <https://happyhooligans.ca/clothesline-activity/>

Baby doll [bath](#) and [nappy changing](#) stations

A [homemade sugar scrub](#) is a lovely, natural way to exfoliate and invigorate your skin in the shower. – Kids Activities Blog

[Bath Bombs](#) always make a lovely gift, and they're so easy to make using a few simple kitchen ingredients. – Red Ted Art

A Pumpkin and a Princess has a ton of soap and scrub recipes on her site. I love the look of [this homemade lavender soap](#).

Kids of all ages will love mixing up [a batch of scented bath salts](#). They look gorgeous, and they smell divine. Bitz and Giggles

#### PHYSICAL

<http://frugalfun4boys.com/2016/03/28/american-ninja-warrior-backyard-obstacle-course/>

ENGLISH

<https://happyhooligans.ca/story-stones/>

TOYS and GIFTS kids can make

[70+ Homemade Toys to Make for Kids](#)

[These simple lacing frames](#) are easy to make and great for helping little ones develop their fine motor skills. – Babble Dabble Do

[Shaped foam lacers](#) are easy for little hands to grip and a fun way to practice threading skills. – Powerful Mothering

I adore this [all-natural, stick threading game](#) by Mini Eco.

Here's a soft and colourful way for toddlers to explore the alphabet: [stuffed, hand-sewn felt letters](#) by Buggy and Buddy.

Make a [no-sew, alphabet pocket chart](#) to help little ones learn their letters.

I see countless hours of creating and re-creating here with [this gorgeous potato head felt set](#).

Did you know you can [make your own silly putty?](#) – Coffee Cups and Crayons shows us how.

MATHS

Make a geoboard <http://crayonboxchronicles.com/2013/10/30/div-geoboard-with-fabric-loops/>

ENGLISH

Make a set of alphabet stones <https://happyhooligans.ca/10-stone-activities-for-kids/>