



Science Activity Guide



Kidco at Home - PLAY & LEARN

SCIENTIFIC FUN!

Doing science projects helps develop your child's knowledge about the world around them by observing, asking questions and investigating.

Allowing children to really get into science gives them the chance to make discoveries on their own.

Ask your child open ended questions through each activity to encourage problem solving skills.

What do you notice?

What did you try?

What happened?

What will you do next?

What else could you try?

What do you think will happen?



Kidco at Home - PLAY & LEARN

FIZZING ICE CUBES

Place one drop of food coloring into each cavity of an ice cube tray. Mix $\frac{1}{4}$ cup baking soda into the 3 cups of water until it is fully dissolved. Fill the ice cube tray with the baking soda mixture. Freeze for 3-4 hours or overnight. Place the ice cubes on the sidewalk and spray with the vinegar. As the baking soda reacts to the vinegar, it will begin to fizz.



Kidco at Home - PLAY & LEARN



HOW DOES WATER TRAVEL?

Explore how plants 'drink' up their water like straws through their roots with this fun activity. Place two large cabbage leaves into a glass container filled with water and food colouring for you investigate. After about 6 hours your child will be able to observe the colourful results.



Kidco at Home - PLAY & LEARN

WHAT MELTS IN THE SUN?

This is an easily set up activity that offers a lot of opportunity for observation.

Take a muffin tray and objects that will melt with the sun's rays and some that will not for your child to question and discover. Place a different object in each section and lay out in the sun for your child to investigate the results. Ideas: soap, chocolate, crayons, ice cubes, blocks, lego, rocks, marbles, cheese



Kidco at Home - PLAY & LEARN



DANCING RICE

This quick set up activity allows your child to discover cause and effect. Fill a clear glass $\frac{3}{4}$ of the way with water, add food colouring, 1 tablespoon of baking soda and stir well. Add $\frac{1}{4}$ cup of uncooked instant rice to the glass and 1-2 tablespoons of white vinegar. Wait and the rice will begin to 'dance' around the glass! If needed add a bit more vinegar to get them moving.



Kidco at Home - PLAY & LEARN

EXPLODING BAGGIES

Add $\frac{1}{3}$ cup of vinegar in the bottom of a baggie and mix in a few drops of food colouring. Twist the bag in the middle to seal off the vinegar and add 2 tablespoons of baking soda in the top section of the bag. Seal it and carefully set it on the ground.

When you're ready for the fun, have your child untwist the bags and shake them. Make sure they set them back on the ground and watch the gas expand in the bags until the pop!



Kidco at Home - PLAY & LEARN



OIL & WATER

Fill up a small jar or bottle with cooking oil
Place 1/4 cup of water in
4 separate containers.

Dye each water filled
container a different
colour with just a drop or
two of food colouring and
mix. Invite your child to
add drops of the coloured
water with an eye
dropper and watch how
the oil and coloured
water droplets separate.



Kidco at Home - PLAY & LEARN

BUBBLING COLOURS

Set up this exploration activity by placing muffin tins in the bottom of a shallow sensory bin.

Add several drops of food colouring in each cavity of the tray, either one or two colours in each. Pour some baking soda in each cup and provide your child with a water bottle full of vinegar for them to add, mix and observe.



Kidco at Home - PLAY & LEARN

MAGIC MILK

When you add a little bit of dish soap to milk and food colouring, the colours swirl to create fun art! Fill a plate or bowl with milk. Drop in at least 2 drops of each of four colours of food colouring. Generously dip the end of a q-tip in dish soap. Now dip the q-tip into the milk next to a drop of colour. The first thing that will happen is the colour will burst as soon as the dish soap hits it. Encourage your child to explore and create!

