

Let's Experiment



In this series of Play School, children and their carers are invited to marvel at the amazing results of mixing ingredients as they experience the joy of discovering the wonders of science and the natural world.

Young children are extremely inquisitive. They are natural explorers of the world around them. Their open minds and innate curiosity drives them to ask questions and explore possibilities. Importantly, experimenting enables children to learn through their senses, to problem solve, and to learn about themselves and the world around them in a hands on way.

Experimenting is an opportunity to "find out" without worrying about getting it right. When children experiment they make discoveries on their own and this builds self esteem.

Come along as we experiment with items in the laundry basket laboratory, test out some balloon rockets, see what floats and what sinks and make a fizzy volcano painting! Plus, we see children do their own experiments through the windows – with light, bubbles, slime, liquids - and have a fizzy wizzy science party!

Episode 1



PRESENTERS

Zindzi Okenyo & Luke Carroll

PIANIST

Peter Dasent

STORY

The Wind Blew

Author/Illustrator: Pat Hutchins

Publisher: Simon & Schuster Books for Young Readers

FILM

Bubbles

(Play School, ABC)

IDEAS FOR LATER

- Pretend to be the wind and fly around visiting places both far and near. How do you move when you are a gentle breeze? What about when you are a strong wind?
- Collect some sticks and get some paper. Cut out a diamond shape, decorate it and make a kite. Attach some string and fly it in the wind.
- Take a basket and collect a variety of objects such as cotton balls, feathers and leaves. Place your items on a table. Now take a drinking straw and hold it close to one of your objects. Can you blow through the straw and make your item move? Can you blow it off the table? Are your items easy to blow off? You might want to record which ones are fast and which ones are slow.

SONGS

The Mixing Song

Composer: Arthur Baysting & Peter Dasent

Publisher: Origin/ABC Music Publishing

Wet Washing

Composer: Liz Olsen

Publisher: ABC Music Publishing

Two Little Boats

Composer: Traditional

Publisher: ABC Music Publishing

Roly Poly

Composer: Angela Moore & Peter Dasent

Publisher: Origin/ABC Music Publishing

Painting a Picture

Composer: Peter Dasent & Garth Frost

Publisher: Origin

Blow Up a Balloon

Composer: Lucille Wood & Roberta McLaughlin

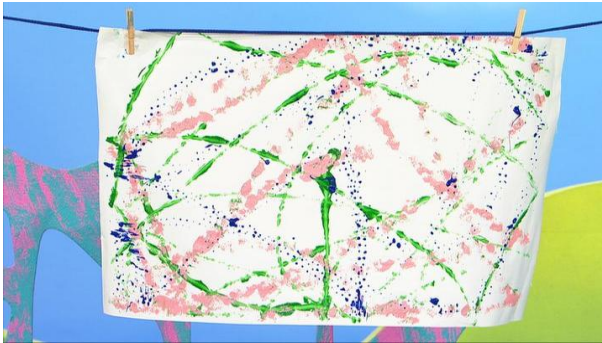
Publisher: Chambers Harrap Publishing

Big Adventure

Composer: Peter Dasent & Arthur Baysting

Publisher: Origin/ABC Music Publishing

MAKE AND DO



How to Make Roly Poly Ball Wall Pictures

You will need:

- A clear plastic tray
- Paper
- A variety of balls of different sizes and textures
- Different coloured paints
- Plastic plates
- A cloth
- A painting apron or smock

Place a piece of paper the same size as your tray inside the tray.

Put some paint on your plastic plates.

Choose a ball and roll it in the paint on one of the plates, making sure that it gets covered in paint.

Place the ball in the tray.

Tip the tray and make the ball roll all around the inside of the tray.

Look at the marks it leaves on the paper. Now choose a different ball and see if the marks are the same or different.



How to make a Balloon Rocket

You will need:

- A balloon
- A peg
- Tape
- String
- 2 chairs

Place the two chairs about two metres apart and attach the string to the top of one of them.

Thread the straw onto the string and then attach the string to the top of the other chair.

Blow up the balloon; use the peg to secure the end so the air can't escape.

Tape the balloon to the straw.

Slide the straw along the string to one chair.

Release the peg and watch the balloon whoosh across to the other chair.

Episode 2



PRESENTERS

Teo Gebert & Michelle Lim Davidson

PIANIST

Peter Dasent

TOLD STORY

Three Little Pigs and the Fiery Dragon

(A story told by the Play School team)

FILM

Fizzy Wizzy Science Party

(Play School, ABC)

IDEAS FOR LATER

- Make a dirt painting. Mix some dirt and water in a container and paint some patterns or a picture. You might like to get messy and use your fingers.
- Create an obstacle course. Find something to balance along (you can be the little red engine), to swim under (you might be a fish) and to fly over like a dragon.
- Get a large piece of paper and some paint and brushes. Sing a song and make the patterns from the song while you paint.

SONGS

Spots Are Great

Composer: Peter Dasent & Mark Barnard

Publisher: Origin/ABC Music Publishing

Swim Like a Fish

Composer: Chris Harriott & Simon Hopkinson

Publisher: ABC Music Publishing

Shaky Shaky

Composer: Jeff Fatt, Anthony Field, Murray

Cook, Greg Page

Publisher: Wiggly Tunes

Would You Like a Cup of Tea?

Composer: Peter Dasent & Arthur Baysting

Publisher: Origin

Dragon Song

Composer: Don Spencer

Publisher: Origin/Control

When The Saints Come Marching In

Composer: Traditional

Publisher: ABC Music Publishing

The Little Red Engine

Composer: Traditional

Publisher: ABC Music Publishing



MAKE AND DO



How to Make a Big Chalk picture

You will need:

- A chalk board
- Coloured chalk
- Clear plastic containers
- Water
- A rock

Use the chalk to create some patterns or draw a picture.

Now wet the chalk and draw on the board. Can you notice a difference?

Place a piece of chalk in a plastic container.

Crush the chalk up using the rock.

Pour in a little bit of water and mix the water and chalk together with your fingers.

Now use your finger to "paint" the chalk onto the chalk board.



Water and Oil Experiment

You will need:

- A clear plastic bottle
- Some water
- Oil
- A funnel
- An eye dropper
- Food colouring

Put some water into your bottle.

Place the funnel in the top of the bottle and then pour in some oil. Does the oil mix with the water?

Put the lid on the bottle. Try shaking the bottle, turning it upside and rolling it. Have the water and oil mixed?

Take the lid off the bottle and use the eye dropper to add some food colouring. Does the food colouring mix with the oil?

Try shaking the bottle and see what happens.

Episode 3



PRESENTERS

Teo Gebert & Michelle Lim Davidson

PIANIST

Peter Dasent

STORY

Open This Little Book

Author: Jesse Klausmeier

Illustrator: Suzy Lee

Publisher: Chronicle Books LLC

FILM

Light Play

(Play School, ABC)

IDEAS FOR LATER

- Do a sand painting. Drizzle some wood glue onto a piece of paper. Sprinkle sand over the paper. Now tip the paper upside down and turn it back over for a surprise.
- Find a bucket and put some water in it. Use a paintbrush to paint the outside walls. What happens to your "paint" when the sun shines on it?
- Make a ramp with some timber or strong cardboard. Collect a variety of items to slide down your ramp. Try a tennis ball or a ball of wool. What about a stick, a cotton ball or a rock. What went fast and what went slowly?

SONGS

The Old Gray Cat

Composer: Traditional

Publisher: ABC Music Publishing

All The Colours of the Rainbow

Composer: Colin Buchanan & Keith Robert

Publisher: Rondor

Der Glumph

Composer: Traditional

Publisher: ABC Music Publishing

I Am A Fine Musician

Composer: Traditional

Publisher: ABC Music Publishing

MAKE AND DO



How to Make a Little Book of Surprises

You will need:

- Paper
- A stapler
- Clear bowls or jars
- Edicol dye
- Large paintbrushes
- A spoon
- Water
- A white candle
- A white pencil
- A white oil pastel
- A painting apron or smock

Place a small amount of edicol dye in each bowl and add some water.

Staple your pages of paper together to make a book.

Use the oil pastel, white pencil and candle to draw some pictures in your book.

Paint over the pictures you have created with the edicol paint. Did your picture magically appear?



How to Make Shadow Window Play

You will need:

- 4 x boxes of the same size.
- Masking tape
- A variety of rectangle shaped materials such as bubble wrap, plastic, tissue paper, cardboard
- Extra cardboard
- Sticky tack
- Ice block sticks
- Safety scissors
- Magazines
- A torch

Find pictures of your favourite animals and then cut them out. Sticky tack them onto paddle pop sticks.

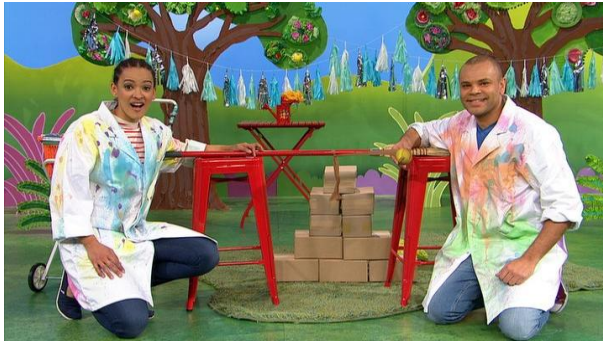
Ask an adult to cut out the base of your boxes to make the "windows".

Tape all of the boxes together. Choose a piece of material and stick it in your window frame. Now shine the torch behind it. Does the light shine through?

Experiment with the other materials you have collected.

Place one of your animals behind the material, shine the torch on it (from behind) and see if an adult or friend can guess the animal.

Episode 4



PRESENTERS

Zindzi Okenyo & Luke Carroll

PIANIST

Peter Dasent

TOLD STORY

Problem Solved

(A story told by the Play School team)

FILM

Slime

(Play School, ABC)

SONGS

Everybody Likes Fruit and Vegetables

Composer: Jay Mankita

Publisher: Dreams on Tape Music

You Can Stamp Your Feet

Composer: Judy Whitfield & Paul Reade

Publisher: Essex Music

I'm Not Afraid of the Kissing Monster

Composer: John Shortis

Publisher: ABC Music Publishing

Clap, Clap, Clap Your Hands

Composer: Traditional

Publisher: ABC Music Publishing

Bravo, Bravo!

Composer: Traditional

Publisher: ABC Music Publishing

Hey Hey Hey

Composer: Justih Keyzer & Peter Dasent

Publisher: Origin/ABC Music Publishing

IDEAS FOR LATER

- Build a wall of blocks or cardboard boxes. Find a ball and kick it at the wall and try and knock it over. Try a few different types of balls and see what happens.
- Go on a hunt in your backyard or at the park. What will you find? Take a basket to collect what you find. How about sorting all the things in your basket into different groups?
- Play a guessing game with fruit and vegetables. Close your eyes and ask someone to pass you a piece of cut up fruit or vegetable. Have a smell and then a taste. Can you guess what it is without peeking?

MAKE AND DO



How to Make Super Duper Fruity Vego Pops

You will need:

- A variety of fruits and vegetables
- Ice block moulds
- Jugs (if using a hand held blender)
- A knife
- A chopping board
- A handheld or other type of blender
- Ice block sticks

Cut up your fruit and vegetables and place them in your blender.

Place your blended mixture into the ice block moulds. You might like to sort fruit and vegetables of the same colour to make the pops. Strawberry and watermelon for a red pop, mango and orange for an orange pop.

Put an ice block stick in each mould and place the tray in the freezer.

After a few hours your refreshing super duper fruity vego pops will be ready to eat!

How to Make Painting Machine Picture

You will need:

- A clear plastic sauce bottle
- Safety scissors
- Paint
- A broom or large stick
- String
- 2 x chairs
- Large sheet of paper
- Masking Tape
- Newspaper or drop sheet

Place your broom or large stick between two chairs.

Use the masking tape to secure it to the chairs.

Cut the bottom off the sauce bottle. Tie the string around the sauce bottle and attach it to the middle of your stick.

Place a large piece of paper under the stick, between the 2 x chairs. Make sure you have some newspaper or a drop sheet underneath.

Now place the paint in the sauce bottle and give it a gentle swing.

Watch the pattern the paint makes on the paper. What happens if you push a little harder or spin the bottle?

Episode 5



PRESENTERS

Andrew McFarlane & Justine Clarke

PIANIST

Peter Dasent

STORY

The Beeman

Author: Laurie Krebs

Illustrator: Valeria Cis

Publisher: Barefoot Books

FILM

Mixing Liquids

(Play School, ABC)

IDEAS FOR LATER

- Make an eye dropper picture. Use some eye droppers to drop edicol dye onto paper towel. What happens when the colours run into each other?
- Make some cardboard wings to wear to your very own Busy Bee disco. Play some music and buzz around collecting pollen. Maybe you could ask some friends to join you?
- Find some pine cones, wool and feathers and make some pine cone owls! Wrap the wool around the pine cone to make your owl fluffy and use the feathers as wings. You might also like to make a nest for your owls with an empty tissue box.

SONGS

The Mixing Song

Composer: Arthur Baysting & Peter Dasent

Publisher: Origin/ABC Music Publishing

Here We Go Looby Loo

Composer: Traditional

Publisher: ABC Music Publishing

Wiggerley Woo

Composer: Don Spencer & Moira Cochane

Publisher: Mushroom/Control

Three Owls

Composer: Roberta McLaughlin

Publisher: Chambers Harrap Publishing

If You Want To Know How

Composer: Peter Dasent & Sophie Emtage

Publisher: Origin/Control

Here Is The Beehive

Composer: M. Miller & Paula L. Zajan

Publisher: Control



MAKE AND DO



How to Make a Volcano Painting

You will need:

- A tray
- A sheet of paper
- Clear plastic bottles
- A funnel
- Bicarb soda
- White vinegar
- Edicol dye
- A spoon
- A painting apron or smock

Place the paper inside the tray then put the plastic bottles in the tray.

Put the funnel in the top of the bottle.

In any order put some vinegar, edicol and a spoon full of bicarbonate of soda into the bottle.

Stand back and watch what happens.

How to Make Honey Bear Toast

You will need:

- Slices of bread
- Banana, sliced into circles
- Sultanas or raisins
- Honey

Toast some slices of bread.

When toasted, drizzle some honey on top of each slice.

Drizzle a line of honey to make a mouth for your honey bear.

Place circles of banana on top of bread, two for ears and one for nose.

Place the sultanas or raisins onto the toast as eyes.

Enjoy your yummy, scrummy, honey bear toast!