

TEACHERS' NOTES

This document includes the equipment list for the East Kent Science Jamboree activities.

EYFS* activities – we suggest the teacher watches the video and then conducts the activity with the children rather than following the instructions. The videos are all linked to scientific enquiry types and feature aspects of ideas and evidence.

Lolly Stick Challenge (Materials and their properties)

EYFS*, KS1, KS2

Simple change over time investigation, where colour mixing and prediction are the outcomes.

- Clear plastic cups
- Water
- Coloured lolly sticks

If...and When... (computational thinking skills)

KS1, KS2

Activity for pairs that teach simple rules of programming through creating and following instructions.

- Squared paper or create your own squares
- Dice
- two objects
- Colouring pencils (optional).

Rainbow Water (Working scientifically)

KS2

An activity on density and dissolving, great to show that sugar does not disappear.

- Clear plastic cups
- Colour food dye
- Sugar
- Spoons
- Warm water

Exploring Rafts (Forces and materials)

KS2

Design and build a raft that will float and transport you along the water. This links to the story of The Explorer

- Lolly sticks
- Elastic bands
- Water

Exploring Camouflage (Adaptation)

KS1, KS2

Simple science activities which develop WS skills, link to maths and the story of The Explorer

- Classification work sheets
- Coloured card

Exploring Fishing

KS1, KS2

Learn about magnetic and non- magnetic materials while designing and catching your own tropical fish. This activity links to the story of The Explorer.

- Pen and Paper,
- Salt doh,
- assorted materials,
- glue,
- creative art materials.
- Magnets
- String and a piece of Dowling or a ruler (fishing rod)

World of Bubbles - Bubbles: The Solution

EYFS*, KS1, KS2

Follow a simple recipe to create a bubble mixture and have fun experimenting with bubbles!

- Washing up liquid
- Beakers
- Bubble wands
- Glycerine

World of Bubbles - Bouncing Bubbles

EYFS*, KS1, KS2

Can bubbles bounce? How many times can you bounce a bubble?

- Washing up liquid
- Beakers
- Bubble wands
- Glycerine

World of Bubbles - Bubbles Within Bubbles

EYFS*, KS1, KS2

Can you blow bubbles within bubbles? Put your skills and bubble mix to the test!

- Washing up liquid
- Beakers
- Bubble wands
- Glycerine
- Wipeable whiteboard
- Straws

Shaving Foam Fun (materials)

KS2 Solids, liquids and gas, Models in science

Simple activity that can be used to support ideas about the water cycle.

- Transparent plastic bottle
- Shaving Foam Fun
- Pipette
- Food dyes
- Water

More Shaving Foam Fun

Solids, liquids and those which are both. Opportunity to look at states of matter and then explore paint effects

EYFS * KS1 * KS2

- Paper plates
- Food dye
- Shaving foam
- Paint
- Paper
- Spatula and fork

Survival Challenge

KS2

Individual activity that develops the idea of adaptations and diversity.

- Paper
- pencil
- Imagination

Colour Changing Machine (Minds on imagination activity)

EYFS, KS1, KS2

How can blue water be changed into red water inside a cardboard box? Awe and wonder ensured! Linked to the Live talk featuring Matt Pritchard.

- Funnel
- Rubber hose
- Jug of water
- 2 colours of food dye
- Cardboard box
- 2 cylindrical plastic containers
one fits around the other

Future Me (science capital)

KS1, KS2

Opportunity to read about what STEM Professionals wanted to be when they were 10 years old and their current role in STEM.

- Virtual copy of the book

What's My Job? (Science capital)

KS2

Guess what the STEM professionals do from the 3 objects they show.

- Online activity

Robotic Hand

Ks1, KS2

Create a moving hand that works. A challenge that links DT and Engineering.

- A4 paper/card or cardboard
- Safety scissors
- Straw (paper or plastic)
- Thick cotton string
- Sticky tape
- Pen or pencil

Underwater Sound (How sounds travel)

KS2

Use this wonderful video from AECOM to show how sounds travel through water.

- Water
- Empty plastic drinks bottle
- Large tub of water
- Food dyes
- 2 wooden spoons

Walking Water (properties of materials, absorbency)

EYFS*, KS1, KS2

An activity that demonstrates absorbency of materials with some colour mixing.

- Food dye
- Water
- Cups
- Paper towels

Sugar Lumps (materials, dissolving)

EYFS*, KS1, KS2

Use sugar lumps to test waterproofing of materials, see how high you can build!

- White Sugar lumps
- Range of materials
- Paper plate
- Spoon or pipette

Cartesian Diver (Forces)

EYFS*, KS1, KS2

Can you get the diver to move up and down in the bottle and explain how it works?

- Pen lid
- 2 Litre drinks bottle with lid
- Blu-tac