



# Junior Scientist Challenge

## Twelve experiment ideas and a proper lab record

Predict, test and record using simple household science ideas. An adult should choose and supervise any activity involving heat, sharp items or ingredients.

### HOW TO USE THIS PACK

- Read the whole activity before starting.
- An adult handles anything hot, sharp or potentially messy/unsafe.
- Choose age-appropriate versions and stop if you are unsure.

THIS PACK BELONGS TO

Name

Date started



# Choose Your Experiment

## Sink or Float

Choose 5 safe household objects. Predict first, then place each one in a bowl of water to test it.

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## Shadow Tracker

Put a toy outside in sunlight. Mark the end of its shadow with chalk, then check again later.

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## Paper Bridge

Lay paper across two cups. Fold it in different ways and add coins one at a time to see which bridge holds most.

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## Ice Rescue

Put two ice cubes on plates. Sprinkle a little salt on one and leave the other plain. Watch which melts faster.

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## Static Balloon

Rub an inflated balloon on fabric, then hold it near tiny pieces of paper and watch what happens.

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## Water Drops

Use a dropper or straw to place water drops on a coin. Count how many fit before the water spills.

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## Walking Water

Put coloured water in two cups with an empty cup between. Bridge them with folded kitchen paper and watch the water travel.

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## Colour Mixing

Use three cups of water coloured red, yellow and blue. Mix small amounts to discover new colours.

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## Magnet Hunt

Use a fridge magnet to test a selection of safe household objects. Sort them into magnetic and not magnetic.

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## Sound Test

Put different dry materials into sealed containers. Shake each one and compare the sounds.

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## Seed Watch

Place a bean on damp kitchen paper in a clear container. Check it each day and draw what changes.

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## Paper Columns

Make paper columns in a circle, triangle and square shape. Stand a small card on top and add coins one at a time to compare which shape holds most.

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# How to Run an Experiment

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Question - what do I want to find out?

Prediction - what do I think will happen?

Method - what did I use and do?

Result - what happened?

Because - how could I explain it?



# My Lab Record

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Experiment

My question

My prediction

What I did

What happened

What I would try next