

ADVICE FOR SUPERVISING ADULTS

- Read and follow these instructions, the safety rules and the first aid information, and keep them for reference.
- The incorrect use of chemicals can cause injury and damage to health. Only carry out those experiments which are listed in the instructions.
- This experimental set is for use only by children over 10 years.
- Because children's abilities vary so much, even within age groups, supervising adults should exercise discretion as to which experiments are suitable and safe for them. The instructions should enable supervisors to assess any experiment to establish its suitability for a particular child.
- The supervising adult should discuss the warnings and safety information with the child or children before commencing the experiments.
- The area surrounding the experiment should be kept clear of any obstructions and away from the storage of food. It should be well lit and ventilated and close to a water supply. A solid table with a heat resistant top should be provided.
- Dispose of unwanted chemicals by greatly diluting with water and running into the waste water system.
- When disposing of chemicals, it is necessary to take into consideration the national regulations. For more details please refer to a competent authority.

WARNING!

- READ THESE INSTRUCTIONS BEFORE USE, FOLLOW THEM AND KEEP THEM FOR REFERENCE.
- KEEP YOUNG CHILDREN AND ANIMALS AWAY FROM THE EXPERIMENTAL AREA.
- STORE THIS EXPERIMENTAL SET AND THE FINAL CRYSTAL(S) OUT OF REACH OF CHILDREN UNDER 10 YEARS OF AGE.
- CLEAN ALL EQUIPMENT AFTER USE.
- ENSURE THAT THE CHEMICALS ARE USED UP IN ONE GO IN YOUR EXPERIMENTS AND THAT THE EMPTY CONTAINER IS DISPOSED OF SAFELY.
- WASH HANDS AFTER CARRYING OUT EXPERIMENTS.
- DO NOT EAT OR DRINK IN THE EXPERIMENTAL AREA.
- DO NOT ALLOW CHEMICALS TO COME INTO CONTACT WITH THE EYES OR MOUTH.
- DO NOT APPLY ANY SUBSTANCES OR SOLUTIONS TO THE BODY.
- DO NOT DO THE EXPERIMENTS WHERE FOOD OR DRINK IS HANDLED OR IN BEDROOMS.
- DO NOT USE ANY EQUIPMENT WHICH HAS NOT BEEN SUPPLIED WITH THE SET OR RECOMMENDED IN THE INSTRUCTIONS FOR USE.
- ENSURE THAT DURING EXPERIMENTS THE CONTAINER WITH THE LIQUID IS OUT OF REACH OF CHILDREN UNDER 10 YEARS OF AGE.
- NOT SUITABLE FOR CHILDREN UNDER 10 YEARS. FOR USE UNDER ADULT SUPERVISION.
- CONTAINS SOME CHEMICALS WHICH PRESENT A HAZARD TO HEALTH.
- DO NOT ALLOW CHEMICALS TO COME INTO CONTACT WITH ANY PART OF THE BODY, PARTICULARLY THE MOUTH AND EYES.
- KEEP SMALL CHILDREN AND ANIMALS AWAY FROM EXPERIMENTS.
- KEEP THE EXPERIMENTAL SET OUT OF REACH OF CHILDREN UNDER 10 YEARS OLD.

FIRST AID INFORMATION

- In case of eye contact: Wash out eye with plenty of water, holding eye open if necessary. Seek immediate medical advice.
- If swallowed: Wash out mouth with water, drink some fresh water. Do not induce vomiting. Seek immediate medical advice.
- In case of inhalation: Remove person to fresh air.
- In case of skin contact and burns: Wash affected area with plenty of water for at least 10 minutes.
- In case of doubt, seek medical advice without delay. Take the chemical and its container with you.
- In case of injury always seek medical advice.

Record the telephone number of your local hospital or doctor in the box below.
(Write the number in NOW so you do not have to search for it in an emergency)
Local Hospital or Doctor's Telephone Number:

TY9734

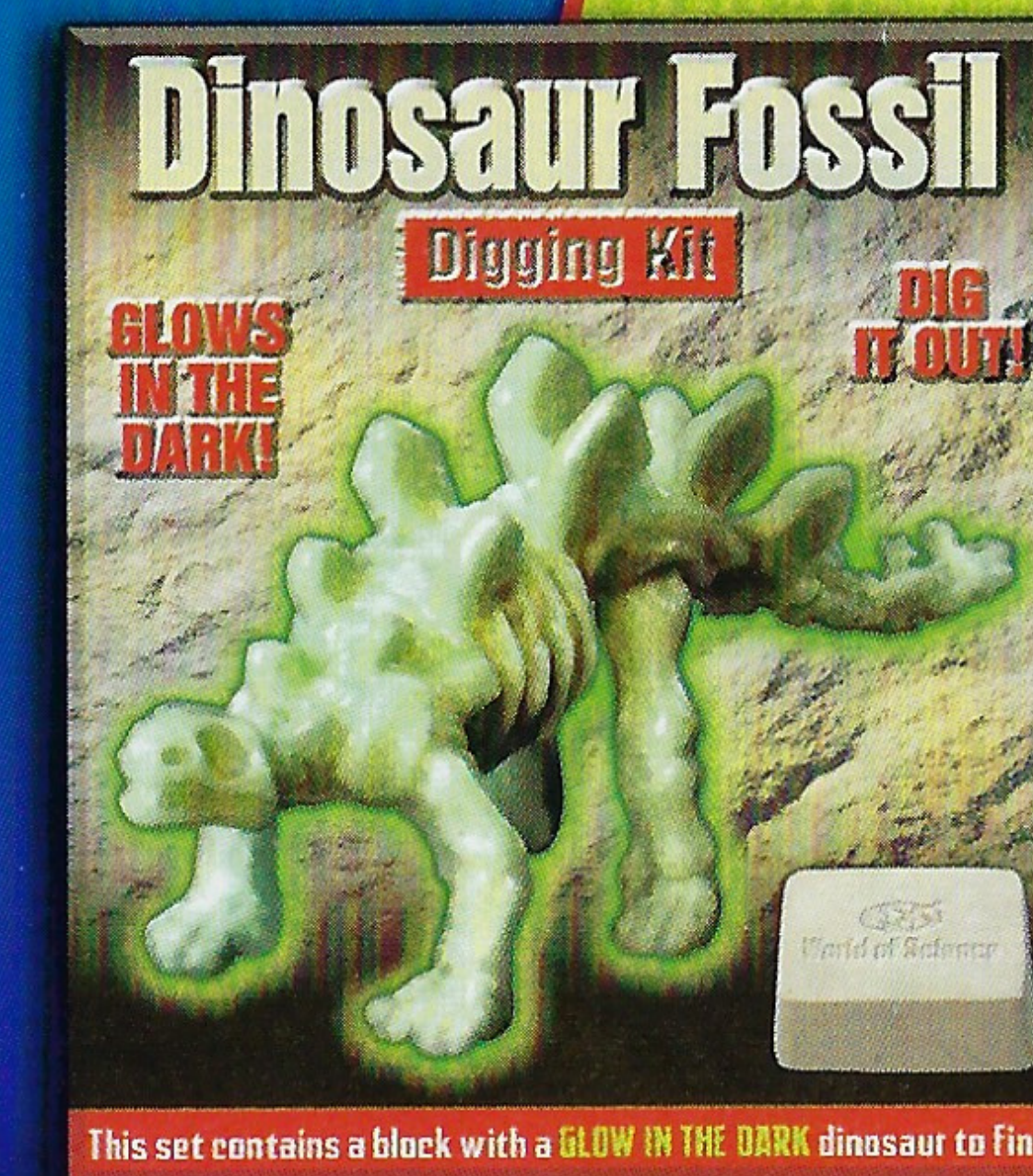
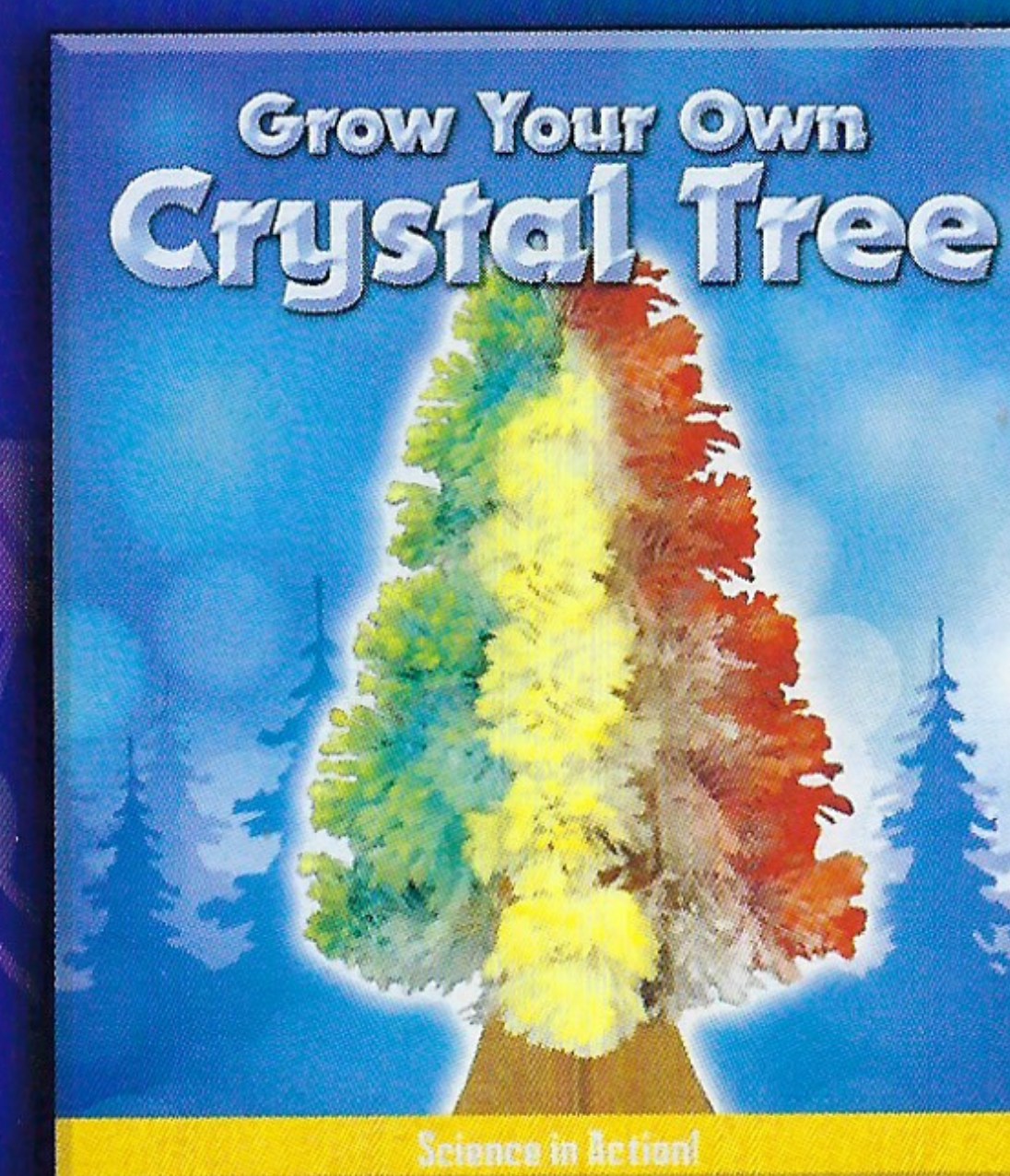
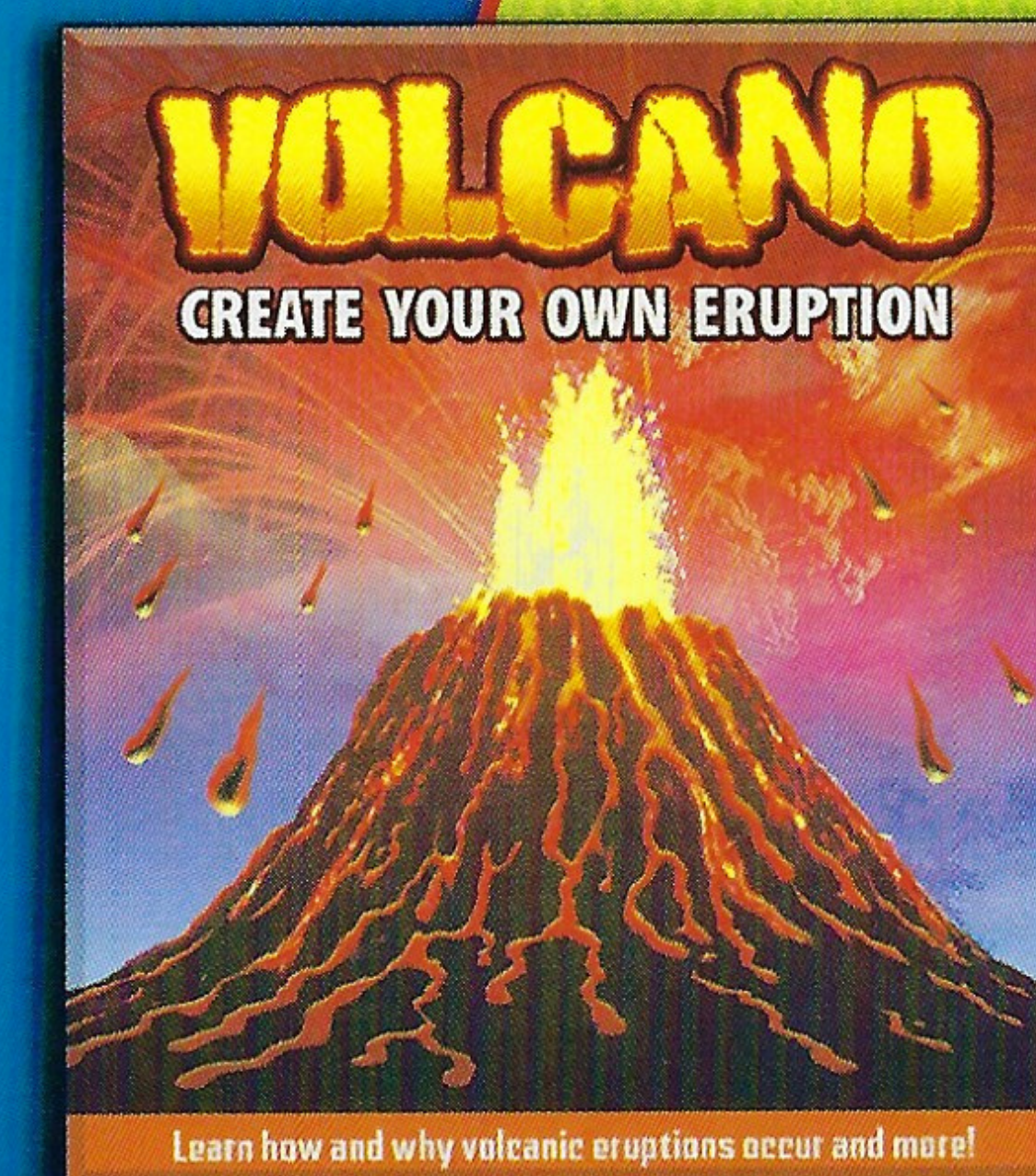
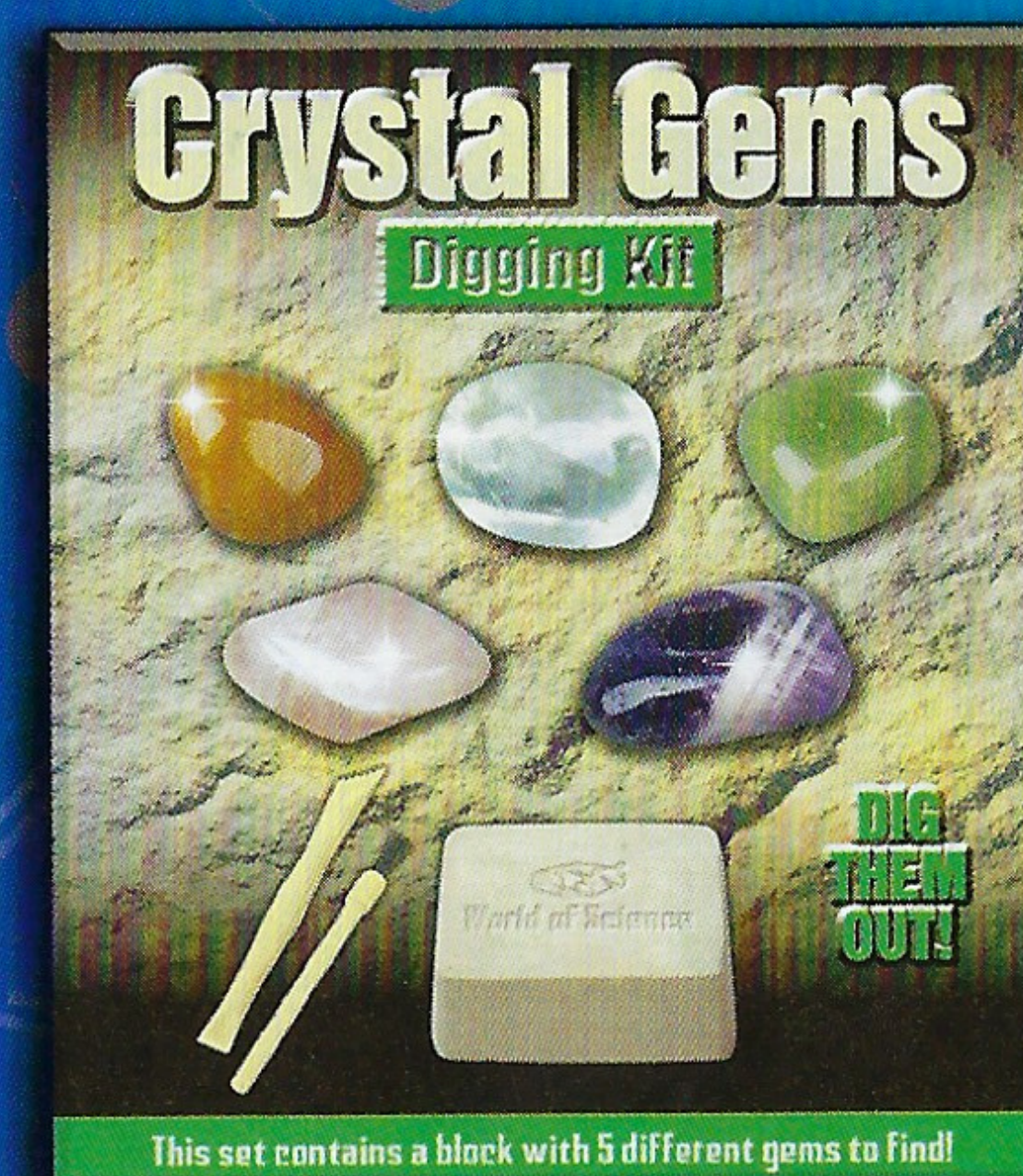
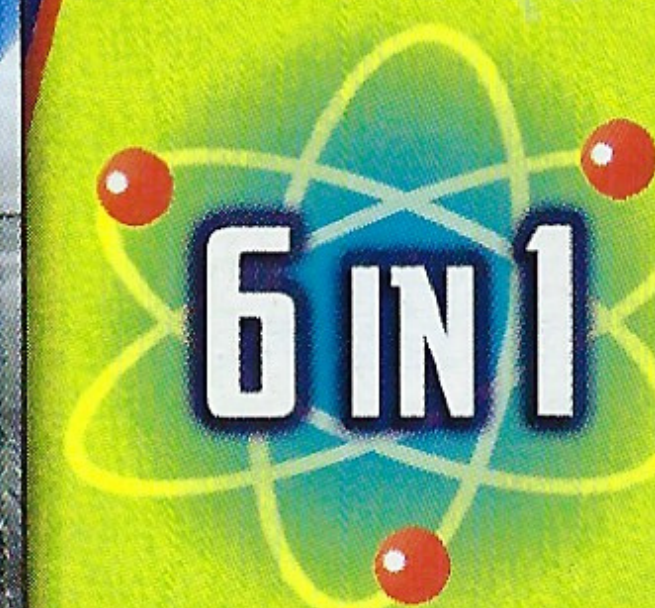
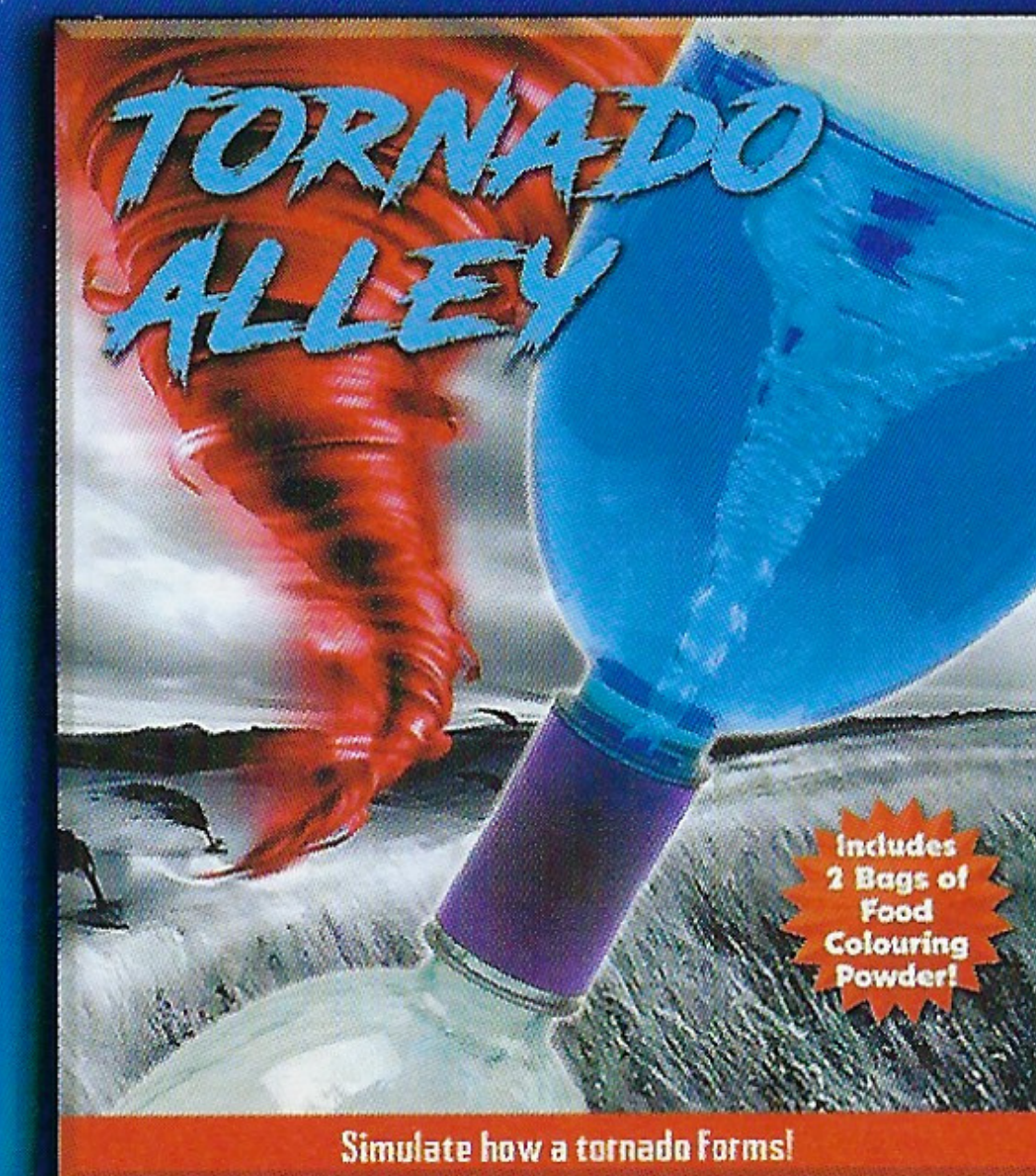
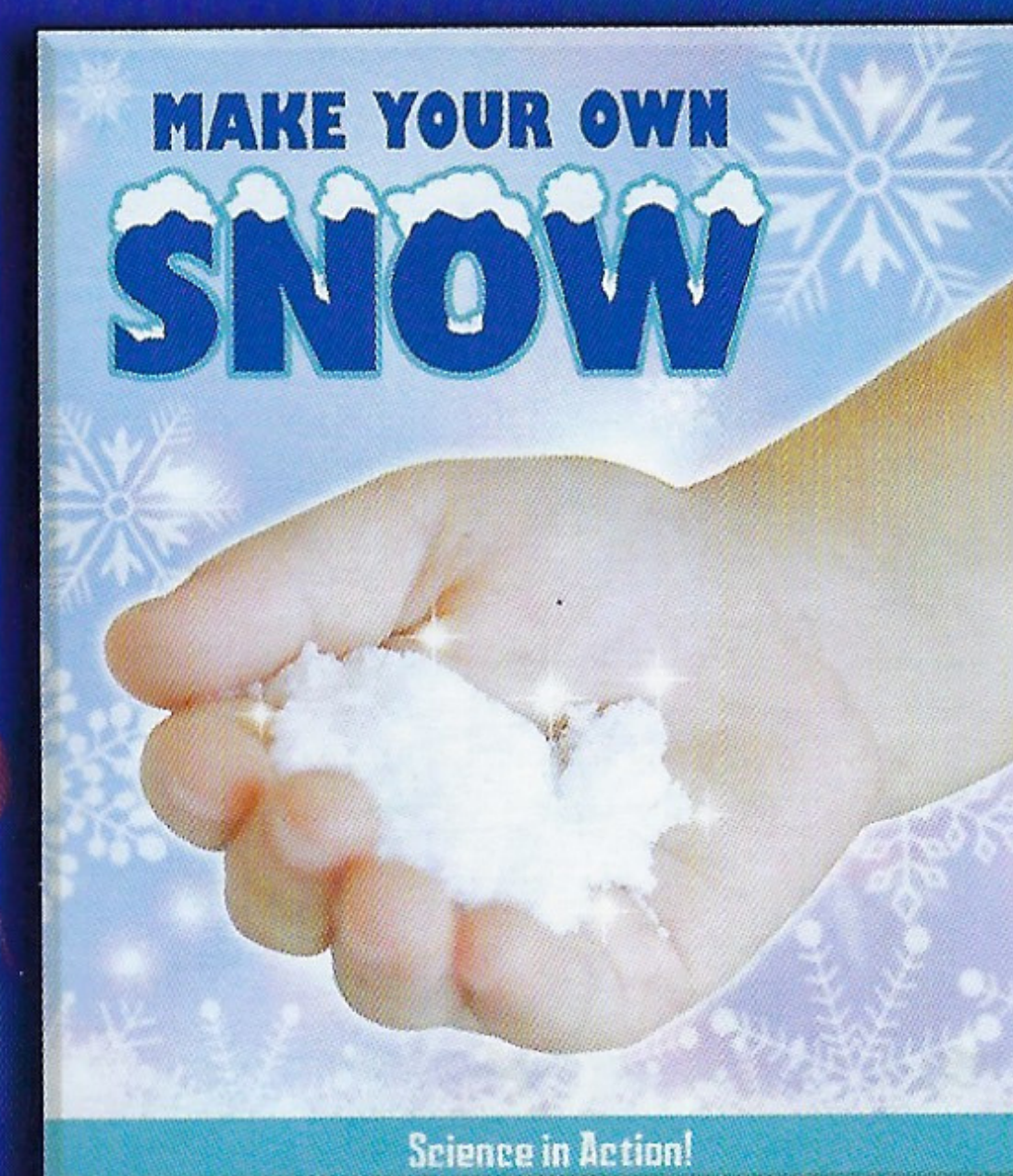
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World of Science

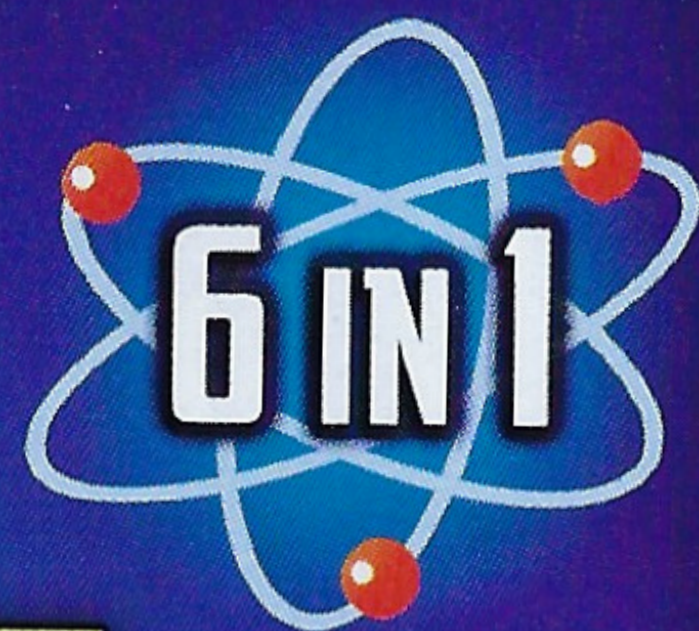
6 in 1 Science Set

Instruction
Manual



AGES 10+

World of Science 6 in 1 Science Set



Make Your Own Snow



CONTENTS:

- Tub of snow crystals
- Measuring spoon

Tornado Alley



CONTENTS:

- Tornado tube connector
- 2 Bags of food colouring powder

Crystal Gems Digging Kit



CONTENTS:

This set contains a block with 5 different gems to find plus a chisel and dust cleaning brush

Volcano Eruption Kit



CONTENTS:

- Volcano base tray • Bottle
- Tub of Plaster of Paris
- Tub of baking soda • Plastic tube

Grow Your Own Crystal Tree



CONTENTS:

- Plastic base
- Cardboard tree
- Tub of crystal solution

Dinosaur Fossil Digging Kit



CONTENTS:

This set contains a block with a dinosaur to find

TORNADO ALLEY

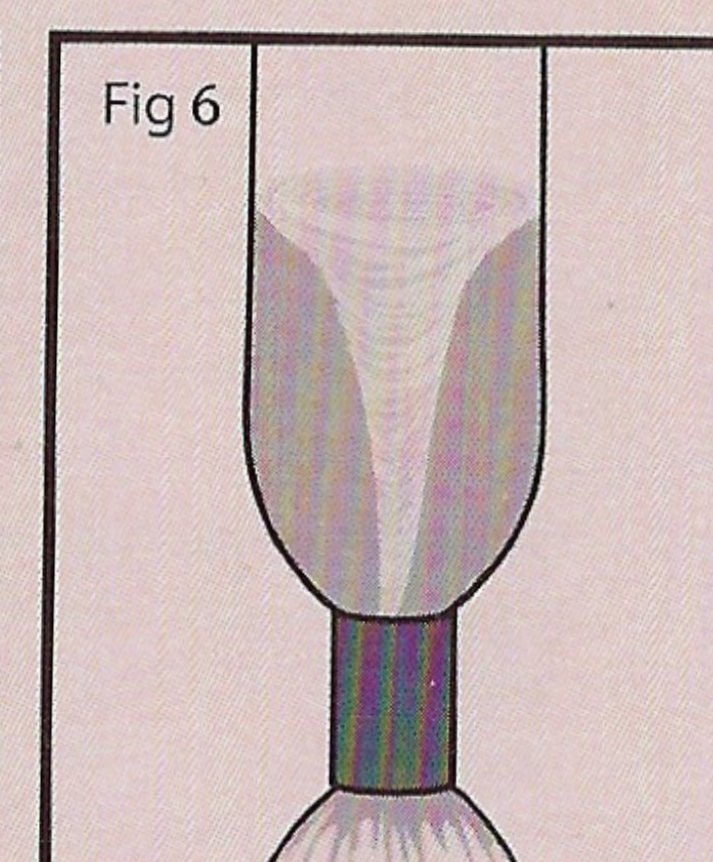
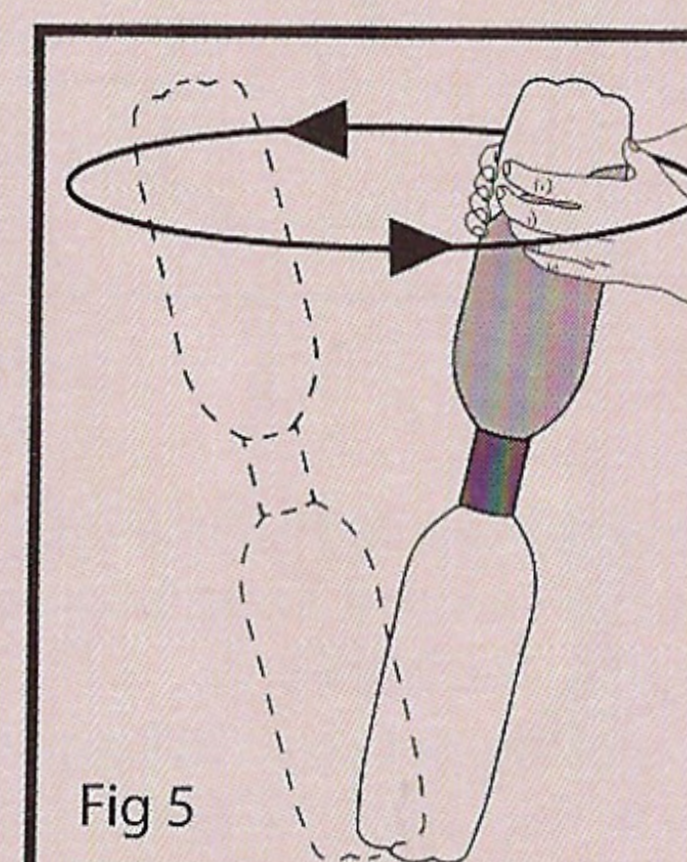
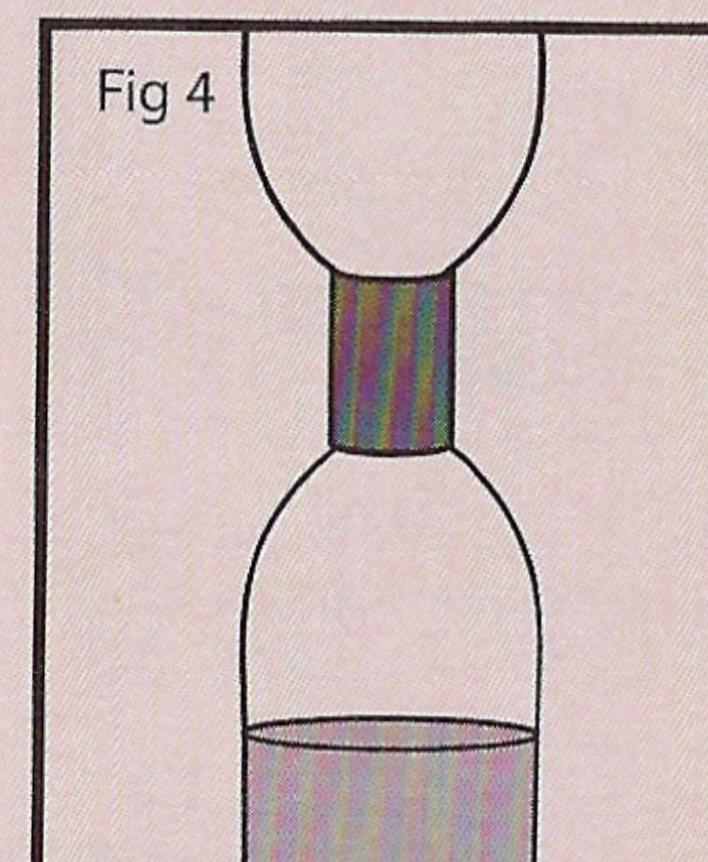
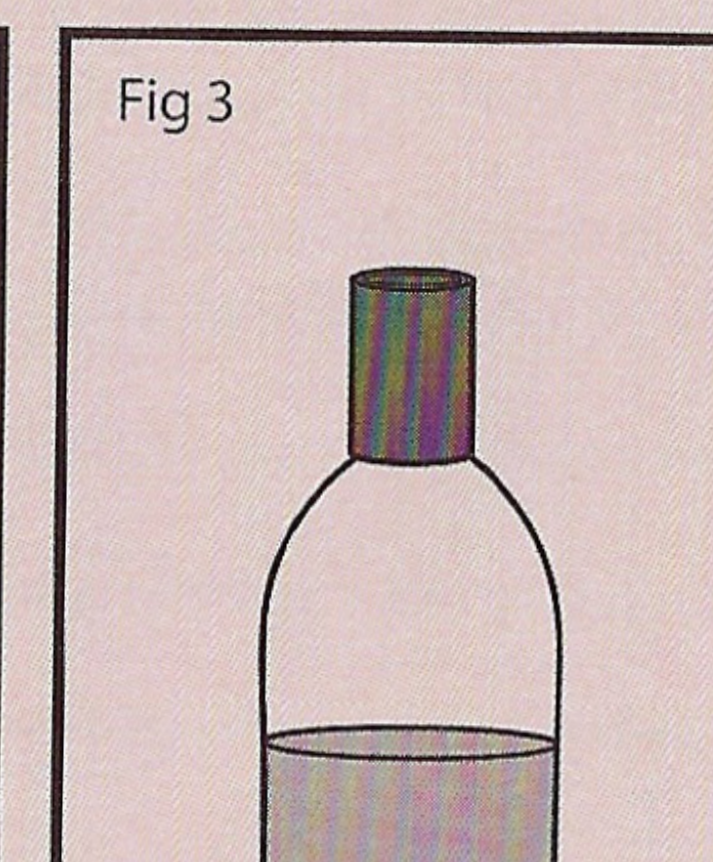
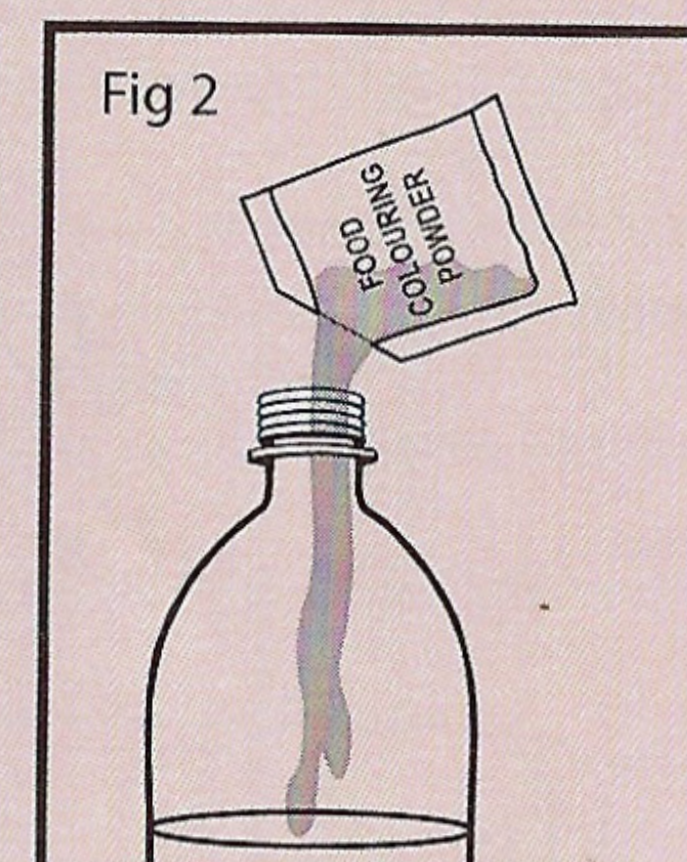
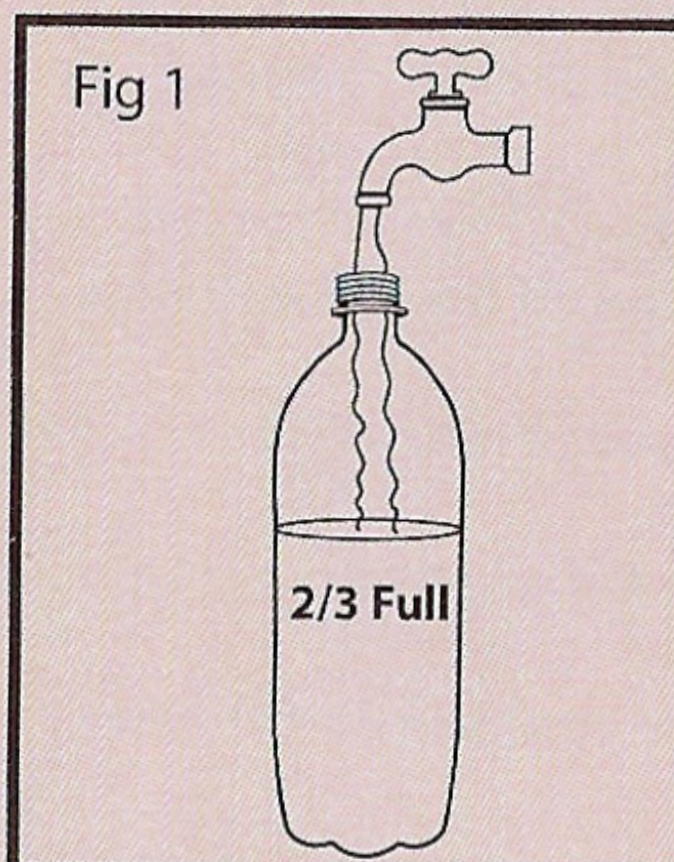
CONTENTS

- 1 x Tornado Tube Connector
- 2 x Bags of Food Colouring Powder

(NOTE: YOU WILL ALSO REQUIRE TWO LARGE PLASTIC BOTTLES AND WE RECOMMEND 2 LITRE BOTTLES FOR MAXIMUM EFFECT)

INSTRUCTIONS

- Remove caps from plastic bottles and then fill one bottle approximately two thirds full. (See Fig 1)
- Now add half bag of one of the food colouring powder. (See Fig 2)
- Now screw on the Tornado Tube Connector to the bottle with water in. (See Fig 3)
- Then screw the second empty bottle onto the other end of the Tornado Tube Connector. (See Fig 4)
- Now hold the bottle with water in and pick up and spin and twist the two assembled bottles. (See Fig 5)
- As the water pours into the empty bottle at the bottom watch it create a funnel like a real tornado. (See Fig 6)



CONTAINS

Red Food Colouring Powder	3g	CAS NO: 2611-82-7
Blue Food Colouring Powder	3g	CAS NO: 3844-45-9

VOLCANO ERUPTION KIT (required vinegar – not included)

CONTENTS

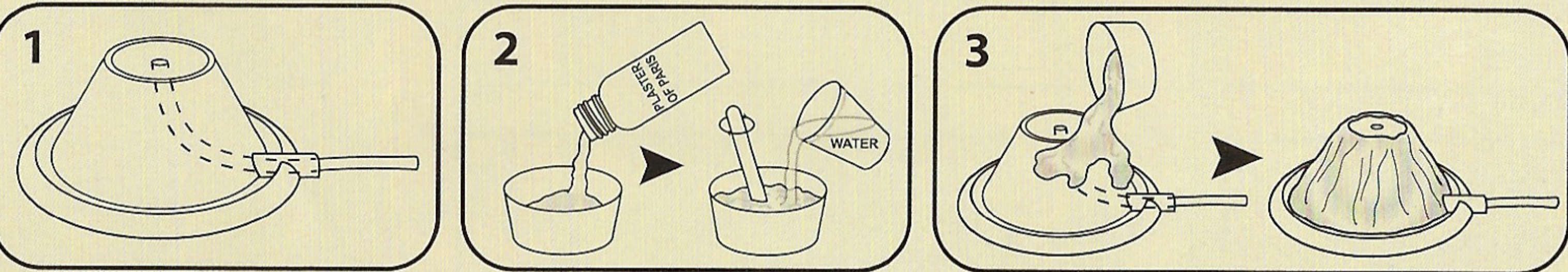
- One Volcano Base Tray
- One Plastic Tube
- One Tub of Plaster of Paris
- One Bottle with Cap
- One Tub of Baking Soda

INSTRUCTIONS

IMPORTANT – Please make sure that you have Adult Supervision at all times during your experiments. Find a nice level area for your activity and make sure that you cover it with old newspapers/paper kitchen towel or old cloth before you start.

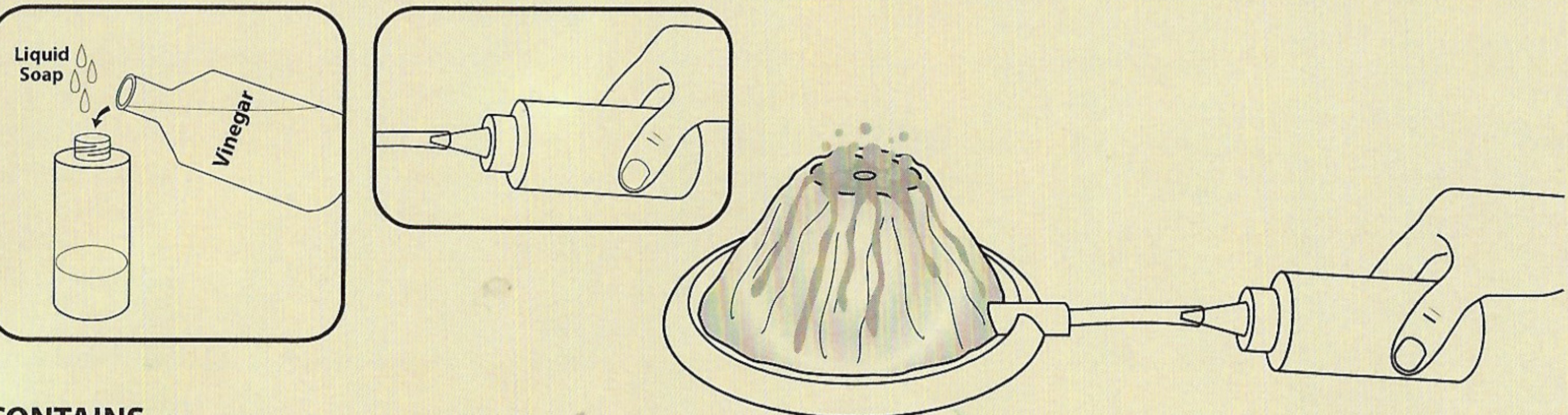
HOW TO MAKE YOUR VOLCANO

1. Feed the tube through the archway at the base of the volcano and up so it just shows through the hole at the top of the volcano.
2. Now we need to prepare the Plaster of Paris – so use a disposable container (not included) and add the plaster. Then slowly, adding a little at a time, pour warm tap water (not hot) into the plaster. Stirring at the same time, with a spoon or fork, mix thoroughly until a nice even consistent paste has been achieved.
3. Now this mixture can be scooped out and applied to the sides of the volcano, but take care! (See points 4 & 5)
4. Ensure that at the base of the Volcano the moat or surrounding area is not full as this area is designed to catch the lava when you make your volcano erupt.
5. Make sure that the tube is protruding up through the hole at the top of the container and use moulding mixture to hold the tube in place and keep it covered and hidden – do not push through too far and do not fill the top of the volcano with mixture though!
6. **TOP TIP:** Make sure all utensils used are carefully washed with warm soapy water and never pour plaster mixture down your sink!
7. We now suggest you wait a couple of hours to make sure the plaster material has dried – this may well take 24 hours but will be well worth the wait!



HOW TO MAKE THE VOLCANO ERUPT

1. Only attempt this under competent adult supervision and stay clear of the top of the Volcano.
2. Pour about 100cc of Vinegar and 3 or 4 drops of liquid soap to the bottle – twist the cap to close it. Attach the loose end of the tube to the opening of the bottle. The tube must be firmly secured to the bottle tip.
3. Then go to the crater at the top of the volcano and pour a tablespoon of the red-dyed Baking Soda into it.
4. Now gently tip the bottle up so the vinegar and liquid soap mix flow to the top of the bottle and then gently squeeze the bottle so the liquid slowly flows up the tube and all the way to the top of the volcano.
- TOP TIP:** Do not make this liquid pour up and through too quickly as it will not react correctly with the Baking Soda.
5. Now watch carefully and from a safe distance as your Volcano erupts.



CONTAINS

Plaster of Paris – Calcium Sulphate (Approx 100g) - CAS: 7778-18-9
Baking Soda – Sodium Hydrogen Carbonate (Approx 10g) - CAS: 144-55-8
(Baking Soda also includes colouring New Coccine (Red Dye) approx 1g) - CAS: 2611-82-7

MAKE YOUR OWN SNOW

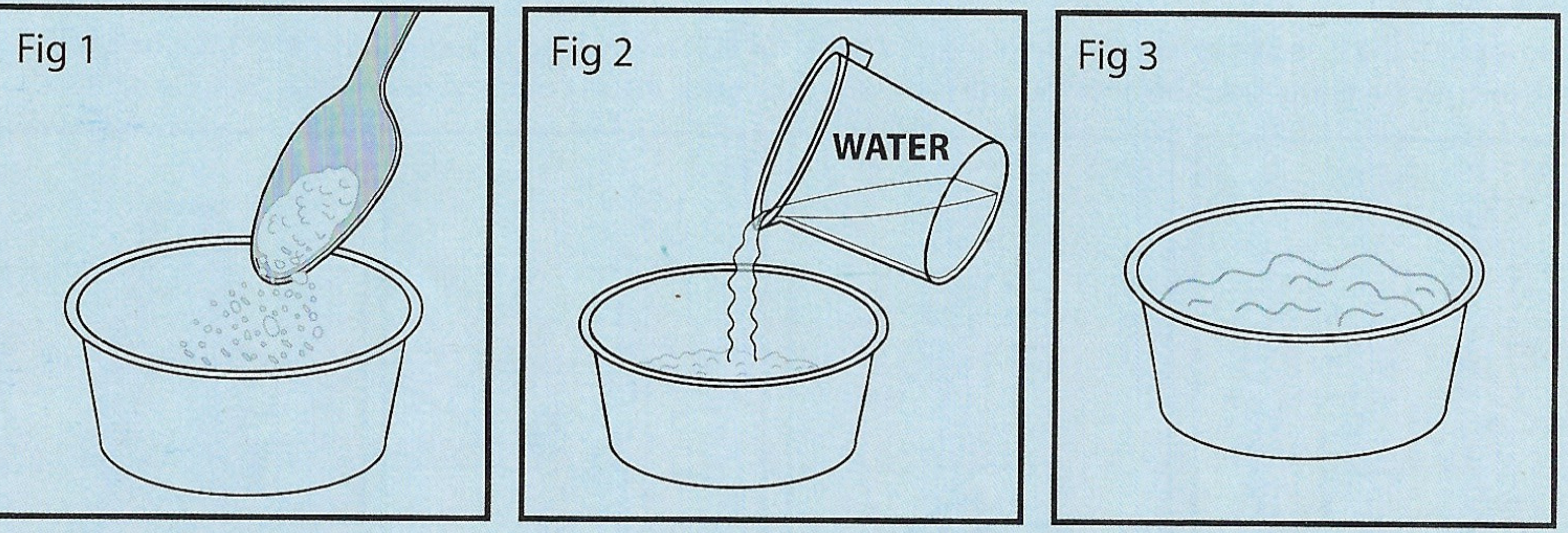
CONTENTS

- One tub of magic snow crystals
- One spoon

INSTRUCTIONS

IMPORTANT – Please make sure that you have Adult Supervision at all times during your experiments. Find a nice level area for your activity and make sure that you cover it with old newspapers/paper kitchen towel or old cloth before you start.

- Carefully pour some Snow Crystals from the Safety Tub onto the measuring spoon and then drop these into a cup or a small bowl (See Fig 1)
- Slowly add a little bit of cold water (See Fig 2)
- You will see the water react with the crystals to create a the snow. (See Fig 3)



WARNING!

- STORE THIS EXPERIMENTAL SET AND THE FINAL SNOW CRYSTALS OUT OF REACH OF CHILDREN UNDER 10 YEARS OF AGE.

CONTAINS

Sodium Polyacrylate (Approx 15g) CAS NO. 9003-04-07

MAKE YOUR OWN CRYSTAL TREE

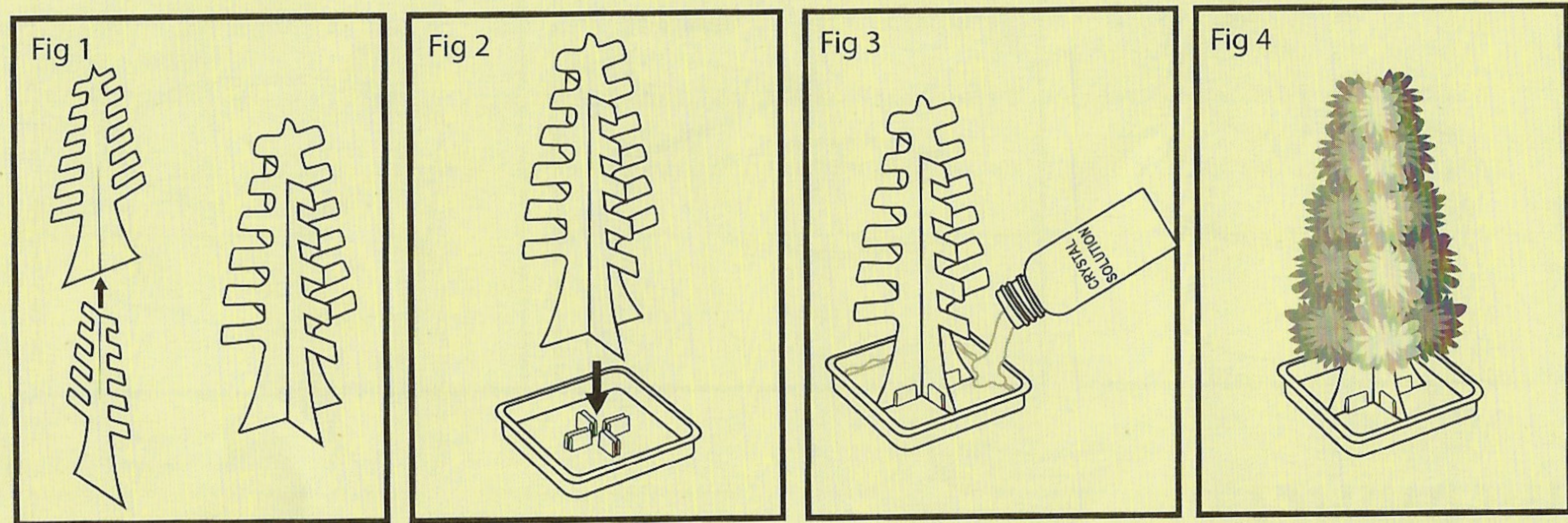
CONTENTS

This set contains a plastic base and cardboard tree shape plus a tub of crystal liquid (solution)

INSTRUCTIONS

IMPORTANT – Please make sure that you have Adult Supervision at all times during your experiments. Find a nice level area for your activity and make sure that you cover it with old newspapers/paper kitchen towel or old cloth before you start.

- Slot the 2 pieces of the tree together (See Fig 1)
- Place the tree in the plastic base then separate the branches so that the crystals will form more easily. (See Fig 2)
- Under competent adult supervision pour all the contents of the bag of liquid solution into the plastic base. (See Fig 3)
- Now place the tree in a level and safe place and leave for at least 24 hours. During this period the tree will absorb all the liquid solution and you will see the crystal grow into a colourful magic tree. (See Fig 4)



WARNING!

- STORE THIS EXPERIMENTAL SET AND THE FINAL CRYSTAL TREE OUT OF REACH OF CHILDREN UNDER 10 YEARS OF AGE.

CONTAINS

Potassium Phosphate Monobasic (Approx 1.66g) CAS NO. 7778-77-0
Water (Approx 8.64g)

CRYSTAL GEMS DIGGING KIT

CONTENTS

- Block with 5 different gems to find
- Chisel
- Dust cleaning brush

WARNINGS

This item has tools with functional sharp points and should only be used under competent adult supervision. When you commence to dig into your gem block, it will create dust and small particles so we recommend you lay out some old newspaper to catch this debris. Handle this debris carefully to avoid getting your clothes and home furnishings dusty. If dust comes into contact with eyes flush with cold water.

Recommended for children 6 years and over.
Not suitable for children under 36 months. Small parts. Choking hazard.
Do not inhale or swallow contents.

Retain this information for future reference.

DINOSAUR FOSSIL DIGGING KIT

CONTENTS

- Block with a glow-in-the-dark dinosaur to find
(NB Use Chisel and Dust Cleaning Brush for this set and the Crystal Gems Digging Kit)

WARNINGS

When you commence to dig into your dinosaur, it will create dust and small particles so we recommend you lay out some old newspaper to catch this debris. Handle this debris carefully to avoid getting your clothes and home furnishings dusty. If dust comes into contact with eyes flush with cold water.

Recommended for children 6 years and over.
Not suitable for children under 36 months. Small parts. Choking hazard.
Do not inhale or swallow contents.

Retain this information for future reference.