

WARNING:
CHOKING HAZARD – Small parts
Not for Children under 3 years.

F. ACTIVITY 3 – MAKE A SPECIAL CRYSTAL GIFT

Why not send the precious stone as gift to your friends or family. Since ancient times, it has been widely believed that crystals possess mystic power which could bring good luck and health. A bag is provided in this kit. Simply choose one of the crystals from your collection. Put it in the bag and send it as a gift. The recipient will love this special gift. If you have a rock tumbler at home, you may tumble the crystals and have them polished. They will become more shiny and transparent after tumbling, and be a very precious gift.



G. FUN FACTS

- Deep inside our Earth the temperature is very high at which all rocks and minerals are in melted form called magma. When this magma rises towards the Earth's surface through volcanic actions, it starts to cool and form solid rock and crystal.
- A rock is made up of more than 2 minerals whereas a crystal is composed of 1 mineral throughout.
- Most of the crystals provided in this kit belong to the quartz group. Quartz is silicon dioxide, SiO₂. Quartz is abundant in the Earth's crust and is the chemically simplest silicates. People use The Mohs Scale to measure the hardness of each mineral. The softest is talc (1) and the hardest is diamond (10). Quartz has a hardness of 7.
- When you pick up a rock from the backyard. You may be able to find some tiny crystal embedded in it. If the cooling process is slow, the minerals will form into large crystals which might be as large as a few feet across. Most of the Earth's crystals took thousands of years to grow. However, some crystallisation processes can be so quick that you could watch their formation at home e.g. salt crystal.
- Contrary to common understanding, crystals do not have to be clear and transparent. It all depends on the nature of the forming minerals. But obviously, beautiful, clear and transparent crystals (gems) are more preferred for making jewellery.

KidzLabs™
Crystal Mining

EXCAVATE YOUR VERY OWN CRYSTALS. ADD THEM TO YOUR ROCK COLLECTION. THE KIT CONTAINS NATURAL CRYSTALS OF VARIOUS COLOURS. YOU'LL LOVE THIS COOL MINERAL ROCK DIGGING KIT!



A. SAFETY MESSAGES

1. Please read this instruction booklet carefully before you start.
2. Adults' supervision and assistance are required.
3. This kit and its finished products contain small parts which may suffocate children if misused. Keep away from children under 3 years old.
4. Do not place the material in mouth. Do not inhale dust or powder.
5. Do not place the materials in the mouth. Do not inhale dust or powder. You may wear protective eye goggle and a face mask for further protection when digging.

B. ATTENTIONS

1. Always work on a solid, level working surface and try to keep the area neat and clean.
2. Do not pour the powder down the sink as it may clog your drain.
3. Plaster may stain some clothing. Wear a working cloth or an apron before you start. Wash the plaster on clothes with soap. Do not mix with other laundries.

C. CONTENTS

1 plaster block with 8 crystals buried inside, 1 specially designed digging tool, 1 brush, 1 magnifier, 1 set display case with cover and base cards, 1 pouch bag and detailed instructions with fun facts.

QUESTIONS & COMMENTS

We treasure you as a customer and your satisfaction with this product is important to us. In case you have any comments or questions, or you find any parts of this kit missing or defective, please do not hesitate to contact our distributor in your country, whose address is printed on the package. You are also welcome to contact our marketing support team at Email: infodesk@4M-IND.com, Fax (852) 25911566, Tel (852) 28936241, Web site: WWW.4M-IND.COM

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D. ACTIVITY 1 – MINE YOUR OWN CRYSTALS



D1. Dig on the plaster with the hammer side of the tool. When the plaster is loosened, scrape the pieces away with the flat side of the tool. When a crystal starts to show through the plaster, apply the digging and the scraping gently or there may be a chance the crystal will be broken. Use the brush to brush away the loosen plaster powder.

D2. Remove the crystal from the plaster when it is completely detached. Dust away the plaster powder with the brush. A crystal is mined. Repeat the above steps until all crystals are mined.

Remarks: The kit is intended for kids imitating a geologist digging up crystals. The digging process has to be done with patience like a real geologists. The activity may take a few hours or days to complete, depending on the kid's ability. That is the essence of digging fun.

E. ACTIVITY 2 – MAKE YOUR OWN CRYSTAL COLLECTION

1. CLEANING THE CRYSTALS

- Prepare a pot of warm soapy water and a used toothbrush or other soft brush. Carefully scrub the dusted crystals with the toothbrush and soapy water.
- Afterwards wash them with water and put the cleaned crystals on a piece of newspaper to dry.



2. STUDYING YOUR CRYSTALS

You can use a magnifying glass to study your crystals. Here is the information about the crystals included in this kit.

CRYSTAL	TYPE	CHARACTERISTICS
	Clear Quartz/ Rock Crystal	Some transparent, some milky or striated. Long, pointed.
	Agate	A wide range of colors and it is often variegated and banded. It also is quartz, belonging to the Chalcedony family. Its name comes from "achates" (Greek) and is said to be the first found near the river Achates in Sicily.
	Dolomite	Colours will range from various shades of green, to yellow, red, black, and white. It is an opaque or translucent gemstone. There are three different minerals that are called jade - jadeite, chloromenlanite and nephrite. And the green color is determined by the amount of iron present.
	Amethyst	Transparent, pointed crystal and the colour is purple, violet and pale red-violet. Amethyst is the most highly valued stone in the quartz group. The name means "not drunk", as amethyst was worn as an amulet against drunkenness.
	Rose Quartz	Strong pink or pale pink. Usually translucent but may be transparent and often crackled. A little turbid. Colouring agent is titanium.

3. MAKING & DISPLAYING "MY CRYSTAL COLLECTION"

- Take out the display base card and cover case.
- Put the information about the crystals in the corresponding information square.
- After all the crystals information is filled in, slide in the cover card with the crystals to the base card.
- Gently turn over the card. Fix the case with the adhesive tape at the back.

