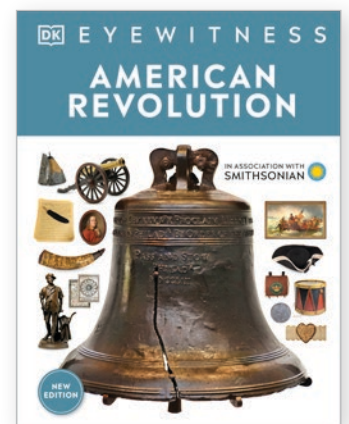
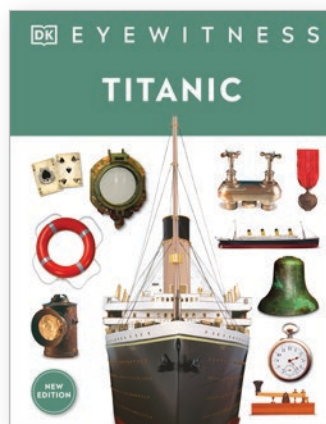
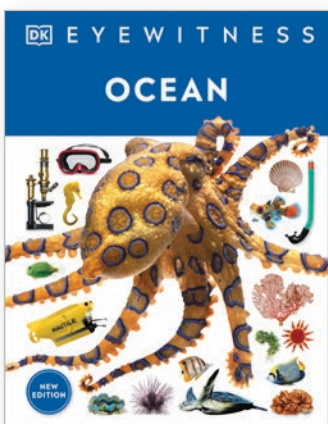
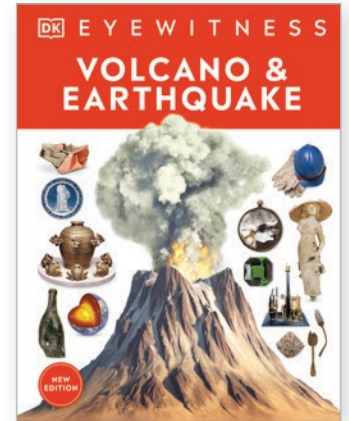
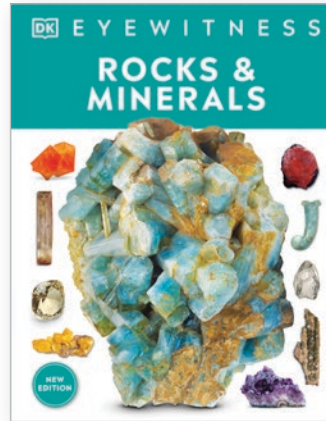
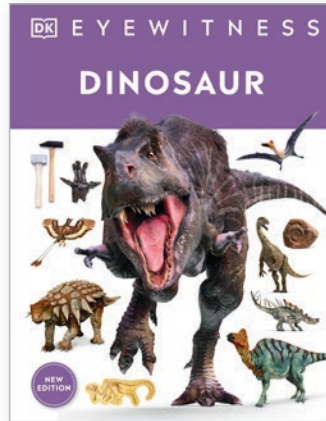
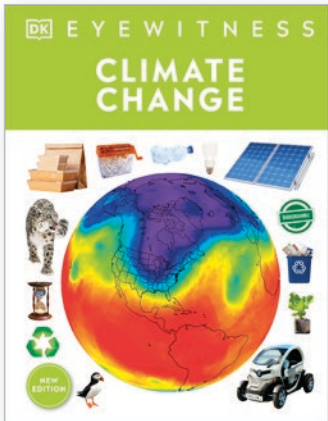


## Help Students Find Their Passion



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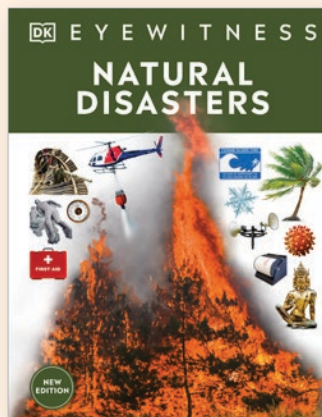


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# Look Inside!

Created alongside authoritative consultants to deliver the trusted content this series is known for

## Now includes:

- More modern fonts and formatting
- Refreshed photography and diagrams
- Brand-new “eyewitness” features highlighting accounts from experts in the field
- Glossary at the back to reinforce key concepts
- Resources for further reading and learning

## Adapting to climate change

Even if we stopped all greenhouse gas emissions tomorrow, the average global temperature would still keep rising for the next 30 years, due mainly to the gradual release of heat stored by the oceans. Rising temperatures are likely to raise sea levels, cause more droughts and floods, and damage agriculture and wildlife. So we must prepare for these changes, while working hard to stop the problem getting worse.

### Tidal defenses

Many great cities are built on low-lying coasts vulnerable to rising sea levels. Most of these cities already have sea defenses, but will need extra protection against extra-high tides and storm surges. In the UK, the Thames Barrier was built in 1974-1982 to protect London from storm surges at sea that were already seen as a threat.

Lifting mechanism to close each gate

The Thames Barrier could prevent flooding until 2060-2070.

Circular steel gate is 20 m (66 ft) high

Nine of these piers and 10 steel gates cover the 520-m (1,700-ft) width of the river.



### Soaking up storms

Concrete city streets can't absorb heavy rain, creating blocked drains and floods of stormwater and sewage. Green spaces like Central Park in New York, USA, soak up rainwater and help avoid such flooding.



### Natural barriers

The sea naturally builds up shingle banks, salt marshes, and mangrove swamps. Preserving these important habitats from destruction by coastal development can help protect coasts from flooding.



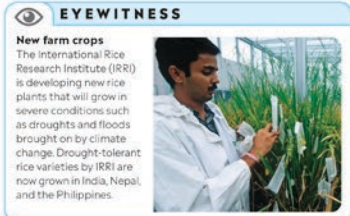
### Wildlife reserves

Habitat destruction and the extra stress of changing climates will drive many species into extinction. Nature reserves protect wildlife, aid research, and the ecosystems that help resist climate change.



### Battling the deserts

People living on the fringes of expanding deserts can stop the sand taking over by planting barriers of drought-resistant grasses and shrubs to stabilize the sand dunes. They can also stop dry grasslands turning into desert by preventing farm animals from overgrazing.



### EYEWITNESS

**New farm crops**  
The International Rice Research Institute (IRRI) is developing new rice plants that will grow in severe conditions such as droughts and floods brought on by climate change. Drought-tolerant rice varieties by IRRI are now grown in India, Nepal, and the Philippines.

## Glossary

### ABRASION

Erosion caused by water, wind, or ice laden with sediments and scraping or rubbing against the surface of rocks.

### ACICULAR

Having a needlelike form.

### ALLOY

A metallic material, such as brass, bronze, or steel, that is a mixture of two types of metal.

### CABOCHON

A gemstone cut so that the stone has a smooth, domed upper surface without any facets.

### CARAT

The standard measure of weight for precious stones. One metric carat equals 0.200 g (0.2 g). Also used to describe the purity of gold: pure gold is 24 carats.

### CLEAVAGE

The way a crystal splits apart along certain well-defined planes according to its internal structure.

### CORE

The area of iron and nickel that makes up the center of Earth. It is about 750 miles (1,200 km) in diameter.

### CRUST

The thinnest layer of Earth. It varies in thickness between 4 and 43 miles (6 and 70 km).

### Group of natural crystals

A naturally occurring solid with a regular internal structure and smooth external faces.

### IDENTIFIC

Having a branchlike form.

### DEPOSIT

A buildup of sediments.



Ground worn away by erosion

### ELEMENT

One of the basic substances from which all matter is made. An element cannot be broken down into a simpler substance.

### EROSION

The wearing away of rocks on Earth's surface by gravity, wind, water, and ice.

### EVAPORITE

Mineral rock formed as a result of salt or spring water evaporating.

### EXTRUSIVE ROCK

Formed when magma erupts as lava, which cools at the surface.

### FACE

A surface of a crystal.

### FACTET

One side of a cut gemstone.

### FIRE

In gemstones, fire is seen as a sparkle of colors caused by the dispersion of light as it enters a gemstone and splits into rainbow colors. Diamond has high fire.

### FOSSIL

The remains or traces of plants or animals preserved in Earth's crust, in rock, amber, permafrost, or tar.

### GALVANIZATION

A process that adds zinc to other metals or alloys to prevent them from rusting.

### GEMSTONE

Naturally occurring minerals, usually in crystal form, that are valued for beauty, rarity, and hardness.

### Diamond

### Sapphire

### GEOLOGIST

A scientist who studies rocks and minerals to find out the structure of Earth's crust and how it formed.

### HABIT

The shape and general appearance of a crystal or group of crystals.

### INTRUSIVE ROCKS

Igneous rocks that solidify within Earth's crust and only appear at the surface once the rocks lying on top of them have eroded away.

### IRIDESCENT

A shimmerlike play of colors on the surface of a mineral, similar to that of a film of oil on water.

### KARST SCENERY

The rock formations of some limestone landscapes.

### LAPIDARY

A professional gem cutter.

### LAVA

Red hot, molten rock (magma) from deep within Earth that erupts to the surface from vents of volcanoes.

### LUSTER

The way in which a mineral shines. It is affected by how light is reflected from the surface of the mineral.

### MAGMA

Molten rock beneath Earth's surface.

### MANTLE

The layer between Earth's core and crust. It is 1,420 miles (2,300 km) thick.

### MASSE

A term used to describe a mineral that has no definite shape.

### MATRIX

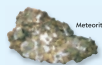
A mass of small grains surrounding large grains in a sedimentary rock, or the rock that surrounds a crystal.

### METAMORPHOSE

To undergo a change of structure. In rocks, this is usually caused by the action of heat or pressure.

### METEORITE

A fragment of rock, such as a rock, that survives its passage through the atmosphere to reach Earth.



Meteorite

### MINERAL

A naturally occurring, inorganic solid with certain definite characteristics, such as crystal structure and chemical composition.

### MINERAL VEIN

A crack in rock filled by hot fluids' mineral deposits.

### MONS SCALE

A scale of hardness. From 1 to 10 based on ten minerals. Minerals of a higher number are able to scratch those of a lower number.

### MOLTEN

Melted, made into a liquid by great heat, especially rocks.

### NATIVE ELEMENT

An element that occurs naturally in a free state and does not form part of a compound.

### NODULE

A rounded lump of mineral found in sedimentary rock.

### OUTCROP

The area that one type of rock covers on a geological map, including the parts covered by soil or buildings.

### PERMITS

The process of melting ice to extract the melt that it contains.

### PIGMENT

A natural coloring material obtained in plants and dyes. Many pigments were first made by crushing colored rocks and mixing the powders with animal fats.

### PRELIMINARY

At first, once ground into a fine blue pigment.

### POROUS

Able to absorb water, air, or other fluids.

### PORPHYRY

An igneous rock containing fairly large crystals set into a finer matrix.

### PRECIPITATION

A chemical process during which a solid substance, such as lime, is deposited from a solution, such as lime-in-water.

### PYROCLASTIC ROCK

Pyroclasts mean "fire-broken" and describe all the fragments of rock, pumice, and solid lava that may be exploded out of a volcano.

### RESIN

A sticky substance that comes from some plants and may harden to form amber, valued as a gem.

### ROCK

An aggregate of mineral particles.

### STALACTITE

A hanging spile made of calcium carbonate (limestone) formed as dripping water precipitates lime from the roof of a cave. Over a long period of time, stone spiles that build up in size and may hang many yards from a cave roof.

### STALAGMITE

A column of mineral that grows up from the floor of a cave.

### STRATIFICATION

The layering of rocks, pebbles, or sand in a rock face that develop as the crystal grows.

### SWALLOW HOLE

A hollow in the ground, especially in limestone, where a surface stream disappears from sight and flows underground.

### TRANSLUCENT

Material that allows some light to pass through it, but is not clear.

### TRANSPARENT

Material that allows light to pass through it, it can be seen through.

### TUMBLED

The process of rolling rough mineral pieces in a tumbling machine with water and graduated sizes of grit until the pebbles are rounded and polished.

### VEIN

A deposit of minerals within a rock fracture or a joint.

### VEHICLE

A gas bubble or cavity in a rock that shifts as a hole after the lava has hardened and solidified.

### VOLCANIC BOHR

A blob of lava that is thrown out of a volcano and solidifies before hitting the ground.

### VOLCANIC VENT

The central passage in a volcano, or a narrow fissure in the ground or on the sea floor, through which magma flows and erupts as lava.

### WEATHERING

The breaking down of rocks on Earth's surface. This is mainly a chemical reaction, aided by the presence of water, but it may also be due to processes such as alternate freezing and thawing, or to mechanical weathering by sediment-laden wind or ice.



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