

MINERAL MASTERMIND

PYRITE



Hardness:	6.5
Heaviness:	5
Cleavage:	0
Colours:	1
Value:	4

Fact: Pyrite is known as "fool's gold" - although it is a similar colour, it is harder than gold.

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NATIVE COPPER



Hardness:	3
Heaviness:	9
Cleavage:	0
Colours:	2
Value:	6

Fact: Bronze is an alloy of copper and tin - alloys are a mix of two or more metals.

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NATIVE PLATINUM



Hardness:	4.5
Heaviness:	21.5
Cleavage:	0
Colours:	2
Value:	10

Fact: Platinum is nicknamed the 'environmental metal'; it is used in many anti-pollution devices.

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NATIVE SILVER



Hardness:	3
Heaviness:	12
Cleavage:	0
Colours:	1
Value:	8

Fact: Unlike gold, silver reacts with the air around it and tarnishes - it turns black.

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NATIVE GOLD



Hardness:	3
Heaviness:	19.3
Cleavage:	0
Colours:	1
Value:	9

Fact: A layer of gold lines the visor of astronauts' helmets; it protects against solar radiation.

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MAGNETITE



Hardness:	6.5
Heaviness:	5
Cleavage:	0
Colours:	1
Value:	6

Fact: Magnetite is a natural magnet - test for it by using a compass.

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HEMATITE

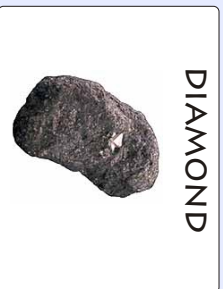


Hardness:	6
Heaviness:	5.5
Cleavage:	0
Colours:	5
Value:	6

Fact: Hematite is often red in colour - its name comes from the Greek word meaning 'blood'.

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DIAMOND



Hardness:	10
Heaviness:	3.5
Cleavage:	4
Colours:	9
Value:	10

Fact: The value of diamonds as gems depends on the four 'C's, carat, clarity, colour and cut.

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GRAPHITE



Hardness:	2
Heaviness:	2
Cleavage:	1
Colours:	1
Value:	2

Fact: Graphite, like diamond, is pure carbon, they are made of the same thing but look different.

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QUARTZ



Hardness:	7
Heaviness:	2.5
Cleavage:	3
Colours:	8
Value:	4

Fact: Quartz comes in lots of different varieties: rose quartz, amethyst, smoky quartz etc.

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APATITE



Hardness:	5
Heaviness:	3
Cleavage:	1
Colours:	5
Value:	3

Fact: Teeth are made of the mineral apatite - 'apatite', 'teeth, get it'?

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FLUORITE



Hardness:	4
Heaviness:	3
Cleavage:	4
Colours:	12
Value:	4

Fact: The 'most colourful mineral in the world'; crystals can even be multi-coloured.

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CALCITE



Hardness:	3
Heaviness:	2.5
Cleavage:	3
Colours:	11
Value:	4

Fact: Calcite reacts with acid - if you drop acid onto calcite it fizzes or 'effervesces'.

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GYPSUM



Hardness:	2
Heaviness:	2.5
Cleavage:	3
Colours:	6
Value:	3

Fact: Gypsum is used to make cement, plaster board and plaster casts.

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TALC

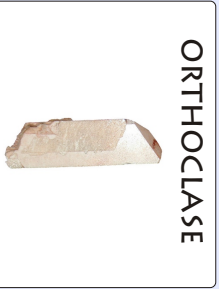


Hardness:	1
Heaviness:	3
Cleavage:	1
Colours:	4
Value:	2

Fact: Talc is the softest mineral on Moh's scale - you can easily scratch it with your fingernail.

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ORTHOCLASE



Hardness:	6
Heaviness:	2.5
Cleavage:	2
Colours:	5
Value:	4

Fact: Orthoclase is an important mineral in granite, a large-grained igneous rock.

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TOPAZ



Hardness:	8
Heaviness:	3.5
Cleavage:	1
Colours:	6
Value:	7

Fact: Topaz is a gemstone; it is often confused with citrine, the yellow variety of quartz.

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**CORUNDUM
(SAPPHIRE)**



Hardness:	9
Heaviness:	4
Cleavage:	0
Colours:	9
Value:	8

Fact: Ruby is another precious variety of corundum, the second hardest mineral on Moh's scale.

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SULPHUR



Hardness:	2
Heaviness:	2
Cleavage:	2
Colours:	3
Value:	4

Fact: Sulphur produces a nasty smell when it's damp - you would know it as rotten egg gas.

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BERYL (EMERALD)



Hardness:	8
Heaviness:	3
Cleavage:	1
Colours:	8
Value:	8

Fact: Emerald is only one variety of the mineral beryl, aquamarine is another type.

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KEY

Hardness and Heaviness values are approximate.

Cleavage represents the number of cleavage planes the crystal has - even if they are weak or very weak.

Colours represents the number of different colour varieties the mineral comes in.

Value is the approximate economic value of the mineral.

Hardness:	1 - 10
Heaviness:	Up to 21.5
Cleavage:	0 - 4
Colours:	1 - 12
Value:	1 - 10

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Hardness:	
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Cleavage:	
Colours:	
Value:	
Fact:	

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