



Biology & Geology

1° ESO

Unit 4: Minerals and rocks

Match each property with its definition:

Exfoliation	Is the relationship between the mass and volume of a mineral
Transparency	The amount of light able to pass through a mineral
Lustre	Is the resistance that the mineral has to being scratched
Density	Is the colour of the mineral in powder form
Hardness	How light is reflected from the surface of a mineral
Streak	The ability of a mineral to break along planes of weakness

Match each method of extracting rocks with the following pictures:

Underground mining

Oil drilling

Open-cast mining

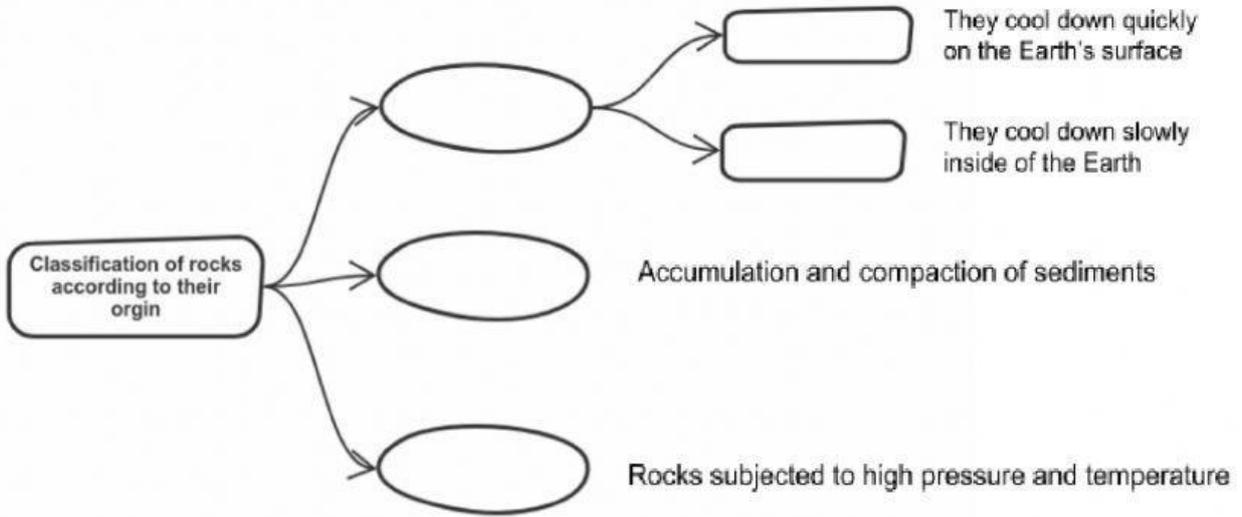
Gravel pit



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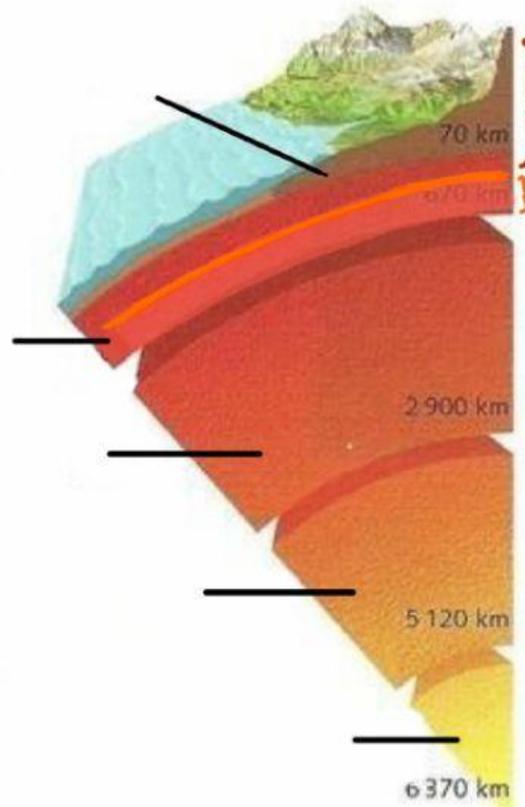
Complete the following diagram with the classification of rocks according to their origin:

Intrusive Plutonic	Sedimentary rocks	Magmatic rocks	Extrusive Volcanic	Metamorphic rocks
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Drag and drop each layer of the Earth's internal structure:

<i>Inner core</i>	<i>Upper mantle</i>	<i>Asthenosphere</i>	<i>Outer core</i>
<i>Lower mantle</i>	<i>Crust</i>	<i>Lithosphere</i>	



Identify the property that is talking about in each sentence and select the correct option

<i>Cleavage</i>	<i>Lustre</i>	<i>Transparency</i>	<i>Hardness</i>	<i>Streak</i>
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_____ : It is the resistance to being scratched. To measure it we use the

_____ : The minerals can be _____ or non-metallic. If they don't have this property we say it is

_____ : This property refers to the ability of a mineral to break along

_____ : This property _____ constant in each mineral and it refers to the colour of the mineral in powder.

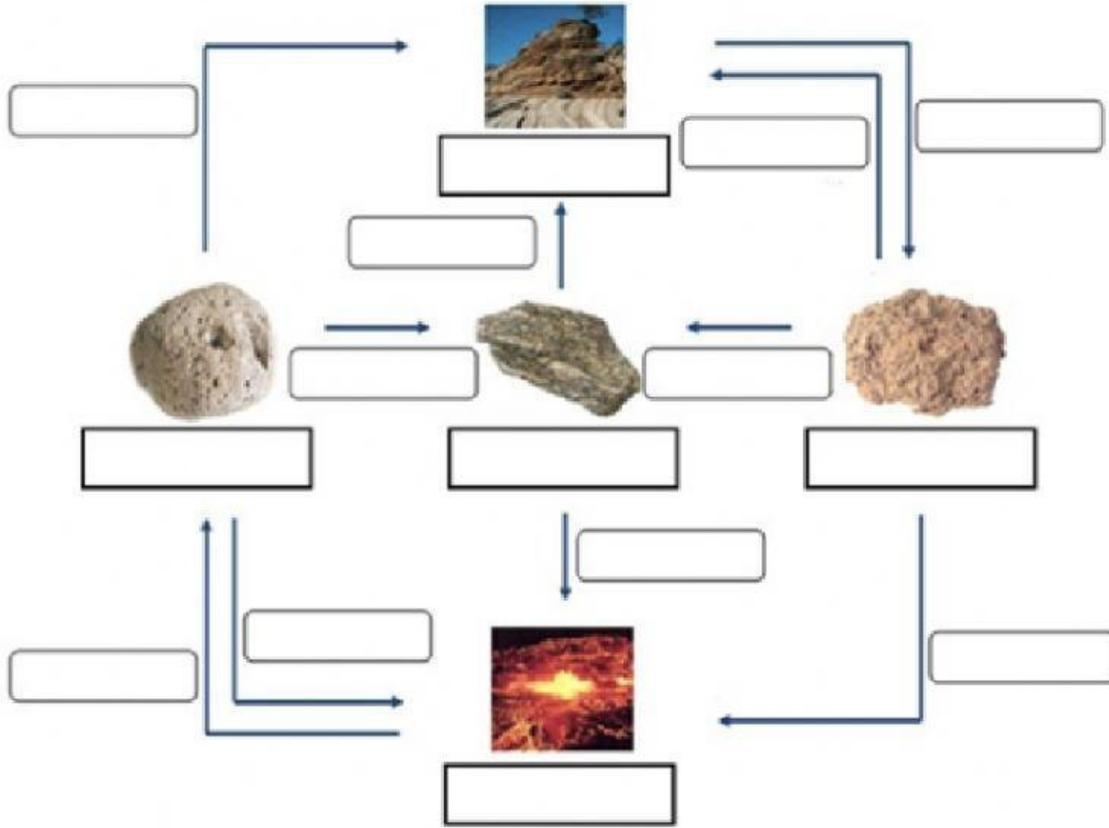
_____ : Minerals can be transparent, translucent or

Complete the sentences with the correct word:

<i>biosphere</i>	<i>lithosphere</i>	<i>atmosphere</i>	<i>lithosphere</i>
<i>upper mantle</i>	<i>asthenosphere</i>	<i>lithosphere</i>	

- The _____ is the rigid outermost part of the Earth.
- The Earth's crust and some of the _____ make up the lithosphere.
- Tectonic plates are large pieces of rock that form the _____.
- The _____ is a layer of semi-fluid rocks.
- The atmosphere and the hydrosphere are in contact with the _____.
- The _____ is composed of all living things in the universe.
- The lithosphere, _____ and hydrosphere never interact with the biosphere.

Complete the diagram about the rock cycle:



The rock cycle

Find 10 words related to this unit:

C	K	R	L	I	T	H	O	S	P	H	E	R	E
R	A	H	Q	L	G	J	M	I	N	E	R	A	L
U	S	X	Y	B	E	R	O	S	I	O	N	Q	M
S	T	N	L	J	W	S	Z	O	M	Q	K	L	E
T	H	R	H	E	L	P	N	Q	Y	B	E	M	I
K	E	E	A	X	J	S	Y	C	H	Z	Y	D	F
M	N	X	R	L	P	T	C	L	X	A	J	H	A
Q	O	T	D	V	I	R	S	E	G	B	S	J	A
S	S	R	N	C	W	E	D	A	U	D	Z	R	N
I	P	U	E	D	F	A	Y	V	M	B	K	O	E
Q	H	S	S	S	V	K	G	A	W	F	G	C	F
B	E	I	S	Z	W	P	X	G	I	I	O	K	U
Y	R	V	E	U	E	K	J	E	N	W	D	E	Z
W	E	E	W	J	H	J	H	V	A	Q	U	H	F