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Full name:
Date:
Class:
School:
Teacher:

Vocabulary

A

B Basin: cuenca Better than: mejor que C

Calcareous: calcáreo Can(verb): poder Can (noun): lata Chemical formula: fórmula química. Clay: barro, arcilla Coins: monedas

D Defined: definido/a Diamond: diamante

Due to: debido a

Е

F Fluorite:fluorita Found: encontrado G Gold: oro Graphite: grafito Granites: granito H Hard: duro Heavy: pesado Heat: calor Jewellery: joyería K Kinds: clases, tipos L Light (adjective): ligero Light (noun): luz Limestone: caliza Lustre: brillo M Malachite: malaquita (green mineral) Marble: mármol N

P Pipes: canalones, tubos Powder: polvo Pressure: presión

Q Quartz: cuarzo

R

Shale: pizarra Siliceous: silíceo Silver: plata Slate: pizarra Some: algunos/as Soft: blando/a/os/as Sphere: esfera

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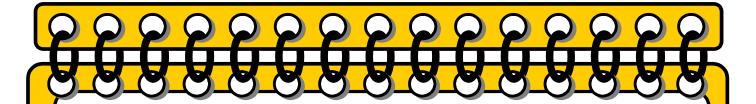
W

Х

Y

Ζ

Type: tipo, clase



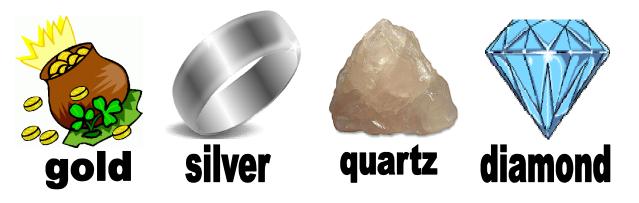
1.- Definition of geosphere.

By <u>geosphere</u> we understand the solid sphere of our planet. It is made up of different materials. The most important ones are <u>minerals</u> and <u>rocks</u>.

2.- Minerals

Minerals are solid substances. They have a defined composition. The main elements that form the composition of minerals are oxygen, silicon, aluminium, iron, calcium, sodium, potassium and magnesium.

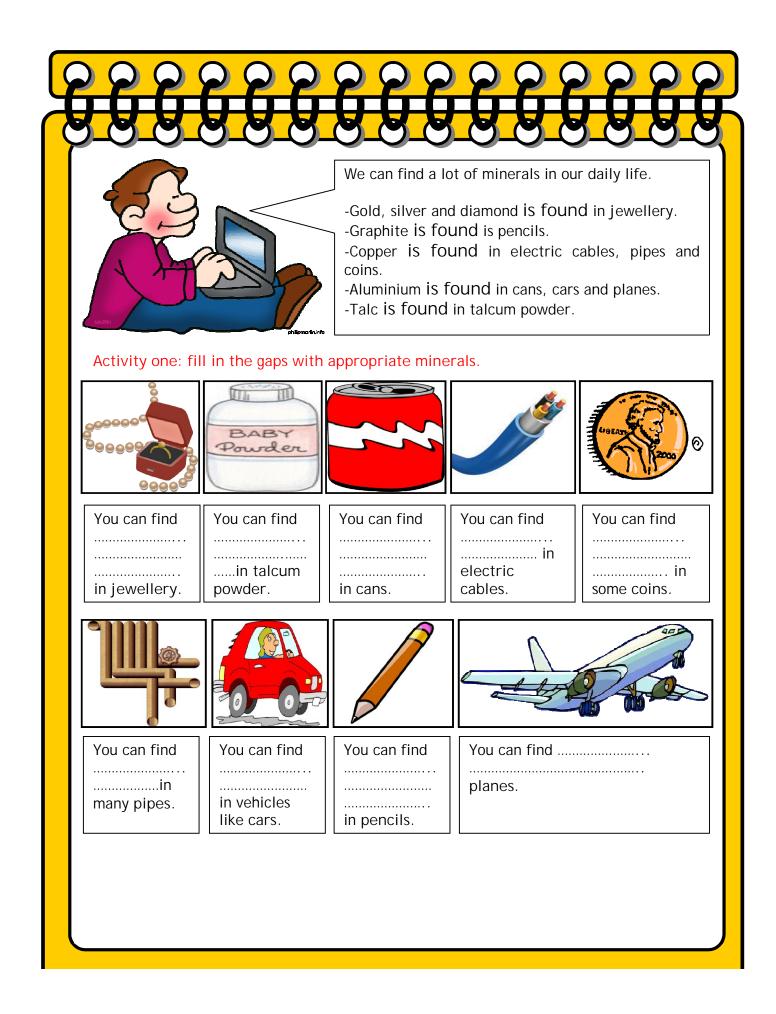
We can express minerals with a chemical formula. Gold, silver, malachite, fluorite, quartz, graphite and diamond are types of minerals.

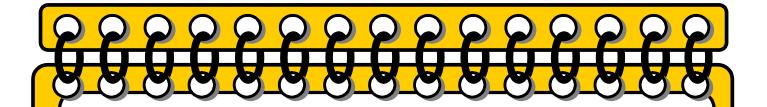


2.1.- Properties of minerals

Minerals can have different properties. They can vary in:

-Colour:	- <u>Lustre</u> :	-Hardness:	<u>-Specific</u> gravity:	Transparency:	<u>-Special</u> properties:
sulphur is yellow, fluorite is blue and malachite is green.	some minerals are metallic but others are non- metallic.	some minerals are soft but others are hard.	some minerals are light but others are heavy.	some minerals can transmit light better than others.	-magnetism -fluorescence -conductivity





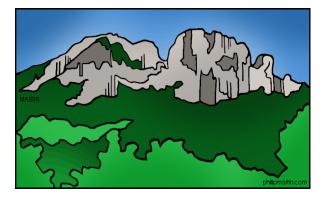
3.- Rocks

Rocks are combinations of many minerals. They are solid substances but they don't have a defined composition. We cannot express minerals with a chemical formula.

3.1.- Types of rocks.

Rocks are solid and hard. They are made up of minerals. There are three main kinds of rocks:

- Metamorphic: They are rocks that change their form due to heat and pressure. Slate and marble are examples of metamorphic rocks.
- Sedimentary: They come from sediments due to erosion. Shale , clay and limestone are examples of sedimentary rocks.
- Igneous or magmatic: igneous is a Greek word. It means fire. They come from lava and magma. Basalt and graphite are examples of magmatic rocks.



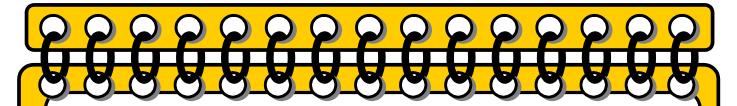






Activity two: answer these comprehension questions.

1 How many types of rocks are there? What are their names?	
 2 Mention two qualities of rocks. 3 What is the origin of sedimentary rocks? 4 What is the meaning of "igneous"? 5 Where do magmatic rocks come from? 	·····



4.- Rocks in Andalusia

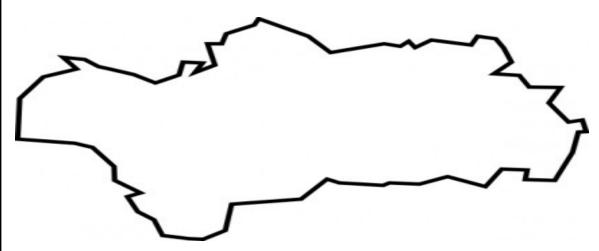
Andalusia has a great variety of rocks. The basin of Guadalquivir divides our region in two different areas:

-Sierra Morena and Sierra of Aracena. They are in the north of Andalusia. They contain the oldest rocks in Andalusia. We can find siliceous rocks of magmatic origin like granites, metamorphic rocks like slate and sedimentary rocks like sandstone.

-Cordilleras Béticas. There are different mountains in the south of our Community. Mountains of Baza and Sierra Nevada have got metamorphic rocks of siliceous and calcareous composition. Mountains of Mágina, Cazorla and Segura have got sedimentary rocks of calcareous composition.

We can find siliceous rocks in the Cabo de Gata. It is a volcanic area. Campo de Gibraltar has got sedimentary rocks.

Activity three: draw the basin of Gualdalquivir and the different mountains in Andalusia.



5.-Webgraphy:

http://www.slideshare.net/laprofedenaturales/unit-10-minerals-and-rocks https://dl.dropbox.com/u/16749648/Bilingue/Unit%205%20y%206.Minerals%20and%20r ocks/Unit%205-6%20min%20y%20rocks.jpg https://docs.google.com/file/d/0BzRJteJjM7m_OGQyZjc2OGMtYzM0OC000DhmLWE4 ODUtYzc2NThkZjg4Y2M2/edit?hl=en

