

# MEET ROCKCHECK

**ORIENTATION:** Arrange all the minerals, rocks, and processes found on the upper left side of the worksheet into three tasks. The numbers represent the tasks in which you need to use available minerals, rocks or processes.

Select one rock. Find the minerals we need, to compose this rock.

## AVAILABLE MINERALS

## AVAILABLE ROCKS

## AVAILABLE PROCESSES

### 1 MINERALOGICAL PUZZLE

Solve me in a few minutes

#### ROCK

#### MINERALS

### 3

### ROCK CYCLE

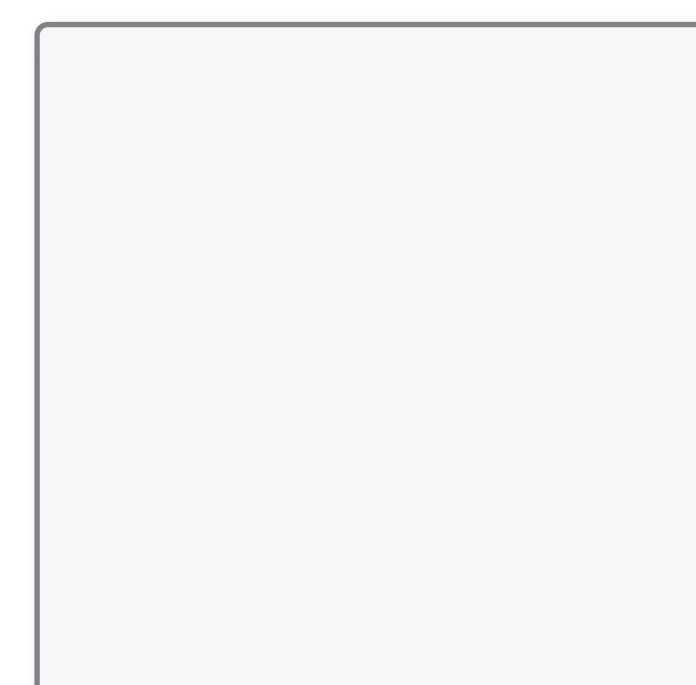
Get ready for a challenge

### 2 CLASSIFICATION OF ROCKS

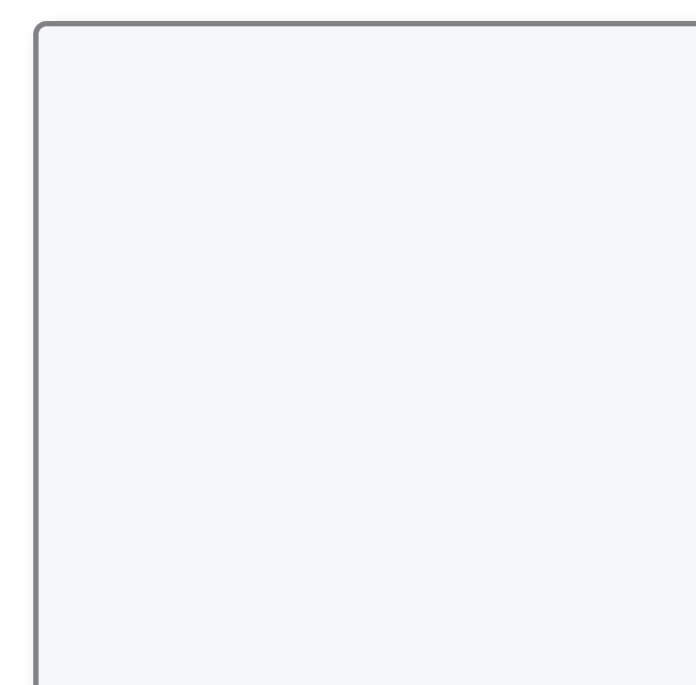
It won't be difficult with RockCheck

Determine rocks with RockCheck app and arrange them by type of rock.

#### SEDIMENTARY ROCKS

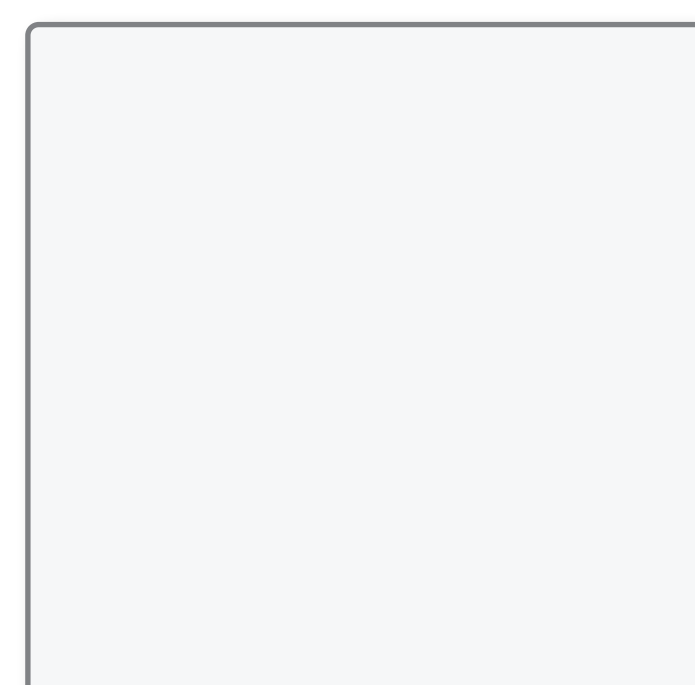


CLASTIC

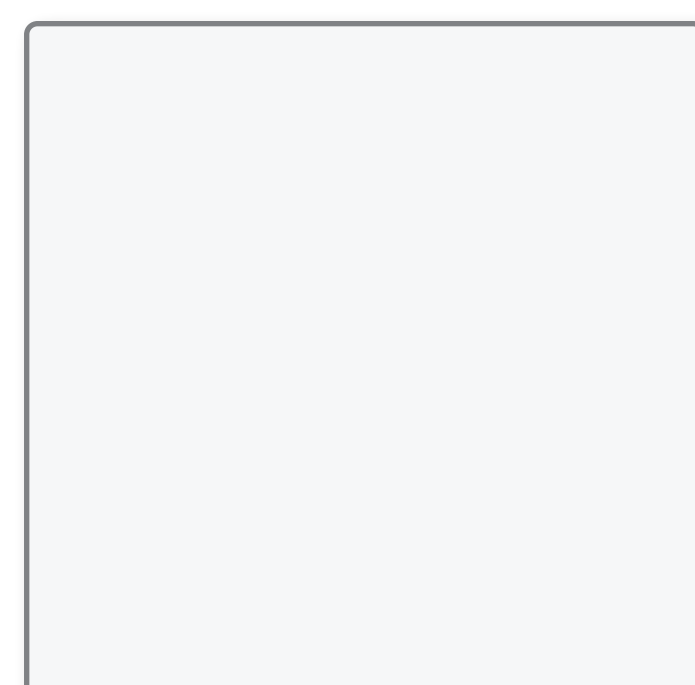


CHEMICAL/BIOCHEMICAL

#### IGNEOUS ROCKS

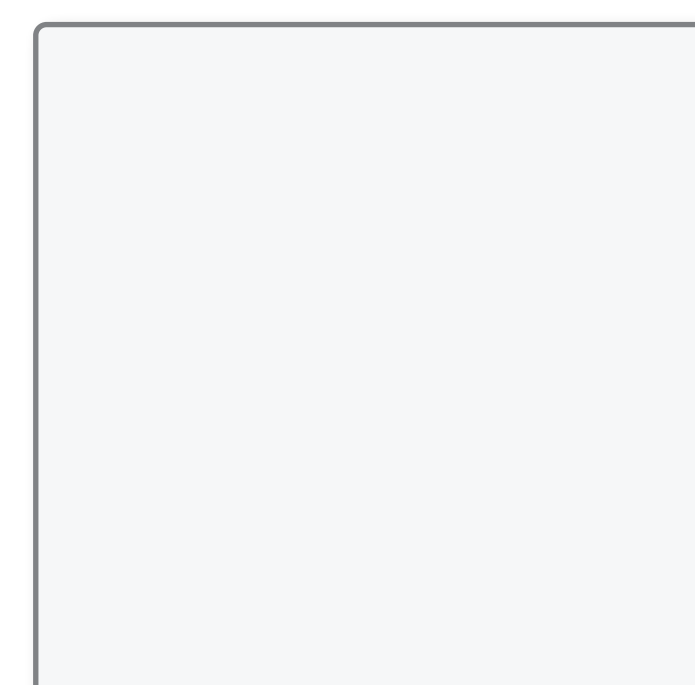


INTRUSIVE



EXTRUSIVE

#### METAMORPHIC ROCKS



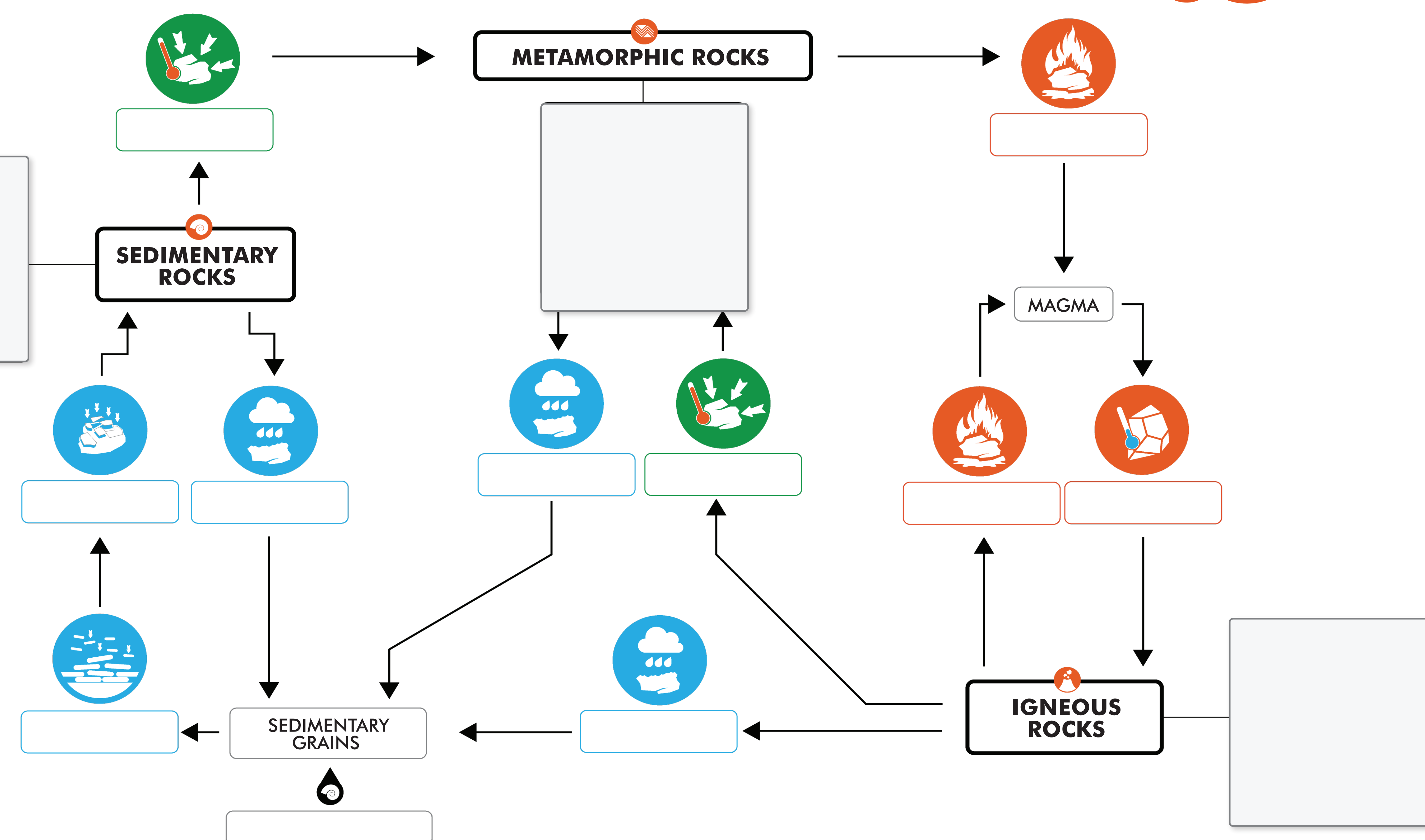
SCHISTOSE STRUCTURE



GRANULOSE STRUCTURE

ROCKCHECK	IMPORTANT CHARACTERISTICS	COLOR	RELATIVE HARDNESS	OCCURRENCE IN ROCKS
MUSKOVITE and BIOTITE	Minerals with thin sheets shape. Muscovite is transparent and is generally silver colored, while biotite is dark and opaque.		1 10	
CALCITE and DOLOMITE	Calcite reacts rapidly with diluted 10% HCL, dolomite does not.		1 10	
AMPHIBOLE and PYROXENE	These two minerals are hard to distinguish. They have prismatic shape and build many igneous and metamorphic rocks.		1 10	
FELDSPAR	Mineral with rectangular angles and pearly glow that makes up some of the most common rocks.		1 10	
OLIVINE	Transparent to translucent mineral with a glassy glow.		1 10	
GARNET	Mineral with spherical to cubic shape.		1 10	
QUARTZ	One of the most common minerals. It is usually seen in rocks as transparent to translucent minerals, with a glassy glow.		1 10	

Arrange rocks into right group and read how they are formed. Which processes lead to their formation?



**MELTING**

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**COOLING AND  
CRYSTALLIZATION**

**WEATHERING  
AND TRANSPORT**

**WEATHERING  
AND TRANSPORT**

**LITHIFICATION**

**SEDIMENTATION**

**HIGH TEMPERATURE  
AND PRESSURE**

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**WEATHERING  
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**DECEASED  
ORGANISMS**

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