

STATION 1 How many can you identify ?

A _____ B _____

C _____ D _____ (black)

E _____

Which specimen is/are from the Mica Group ?

A B C D E

Which mineral forms at the highest temperature?

A B C D E

Which mineral contains zinc?

A B C D E

STATION 3 How many can you identify ?

A _____ B _____

C _____ D _____

51 _____

Which of these minerals are commonly found in metamorphic rocks ?

A B C D 51

Which of these minerals contains boron ?

A B C D 51

Which of these minerals are silicate minerals?

A B C D 51

STATION 2 How many can you identify and list a use of each?

A _____ Use -- _____

B _____ Use - _____

C _____ Use - _____

D _____ Use - _____

E _____ Use - _____

Which mineral(s) is/are sulfide mineral (s)?

A B C D E

Which mineral (s) is/are an oxide or hydroxide mineral(s)

A B C D E

STATION 4

Name the mineral that is

NOT composed solely of SiO_2 _____

Name the two minerals that are composed of cryptocrystalline quartz.

_____ and _____

What is the general name for cryptocrystalline quartz?

Name two minerals that are formed from crystalline quartz/

_____ and _____

Station 1

A



B



C



D



black mineral

E



Station 2

A



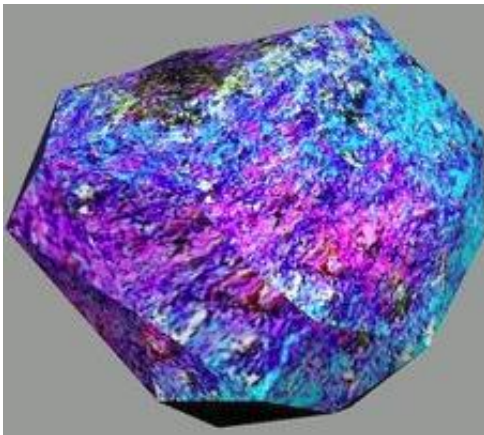
B



C



D



E



Station 3

B



C



A



D



E



Station 4

A



B



C



D



E



Answers

Station 1

- A – lepidolite
- B - sphalerite
- C - olivine
- d - Tourmaline
- E - Muscovite

A and E are from Mica Group

Olivine formed at highest temperature. (Bowen's Series)

Sphalerite contains zinc.

Station 3

- A – ulexite (TV rock)
- B - alabaster (gypsum)
- C - amazonite (feldspar)
- d - dolomite
- E - staurolite

Staurolite is a metamorphic mineral.

Amazonite is also in metamorphic rocks.

Ulexite contains boron.

Amazonite and staurolite are silicates.

Station 2

- A – goethite --- ore of iron
- B - malachite --- ore of copper, lapidary
- C - rhodonite – ore on Mn, lapidary
- D - bornite --- ore of copper
- E - satin spar (gypsum) - drywall, fertilizer

Bornite is a sulfide mineral.

Goethite is a hydroxide mineral.

Station 4

A – celestite does not contain SiO₂.

Agate (B) and Jasper (D) are both forms of cryptocrystalline quartz.

Chalcedony is general name for cryptocrystalline quartz.

Rose Quartz (C) and citrine (E) are forms of crystalline quartz.