

MINERAL RESOURCES PART 1 LAB - IDENTIFICATION OF MINERALS

First watch [this Introductory Video](#). Use these handy mineral identification sites -> [FLOW CHART](#) / [MINDAT.ORG](#)

When selecting the mineral name, choose from the minerals listed below. Not all listed minerals are in this lab. Instructors are cruel!

[BAUXITE](#) [CALCITE](#) [CARNOTITE](#) [CHALCOPYRITE](#) [COPPER](#) [DIAMOND](#) [GALENA](#) [GOLD](#)
[GRAPHITE](#) [HALITE](#) [HEMATITE](#) [MAGNETITE](#) [MALACHITE](#) [TALC](#) [QUARTZ](#)

EXAMPLE MINERAL - The image looks different from the above video but really is the same mineral.



STREAK	WHITE
LUSTER	NON METALLIC - PEARLY / DULL
MOHS HARDNESS	EASILY SCRATCHED BY FINGERNAIL
OTHER PROPERTIES	FEELS LIKE SOAP, SLICK, GREASY FEEL
COLOR	_____
MINERAL NAME	_____
FORMULA	_____
ORE FOR	_____ N/A _____ (What <u>metal(s)</u> is (are) in the formula? See PTable.com)
TWO USES	_____ _____

MINERAL #1



STREAK

WHITE

LUSTER

NON METALLIC - PEARLY / GLASSY

MOHS HARDNESS

SCRATCHES FINGERNAIL, SOFTER THAN PENNY, NO TASTE

COLOR

OTHER PROPERTIES

EFFERVESCES IN DILUTE HYDROCHLORIC ACID

MINERAL NAME

FORMULA

ORE FOR

_____ N/A _____

(What metal(s) is (are) in the formula? See PTable.com)

TWO USES

Mineral 2



STREAK	BLACK - GREY
LUSTER	METALLIC / SUBMETALLIC
MOHS HARDNESS	SCRATCHED EASILY BY FINGERNAIL
OTHER PROPERTIES	LEAVES DARK STREAKS ON PAPER. ERASER REMOVES THOSE STREAKS, FEELS SLICK
COLOR	_____
MINERAL NAME	_____
FORMULA	_____
ORE FOR	_____ N/A _____ (What <u>metal(s)</u> is (are) in the formula? See PTable.com)
TWO USES	_____ _____

MINERAL #3



STREAK	REDDISH - BRONZE
LUSTER	METALLIC
MOHS HARDNESS	SCRATCHES FINGERNAIL, ABOUT AS HARD AS PENNY
OTHER PROPERTIES	MALLEABLE / DUCTILE

COLOR _____

MINERAL NAME _____

FORMULA _____

ORE FOR _____

(What metal(s) is/are in the formula? See PTable.com)

TWO USES _____

MINERAL #4



Look at the green part, not the blue.

STREAK	GREENISH
LUSTER	NON METALLIC - DULL
MOHS HARDNESS	SCRATCHES FINGERNAIL AND PENNY, SOFTER THAN NAIL
OTHER PROPERTIES	
COLOR	_____
MINERAL NAME	_____
FORMULA	_____
ORE FOR	_____ (What <u>metal(s)</u> is (are) in the formula? See PTable.com)
TWO USES	_____ _____

MINERAL #5



STREAK

DIRTY WHITE

LUSTER

NON METALLIC - EARTHY / DULL

MOHS HARDNESS

ABOUT AS HARD AS FINGERNAIL

OTHER PROPERTIES

CONTAINS NODULES

COLOR

MINERAL NAME

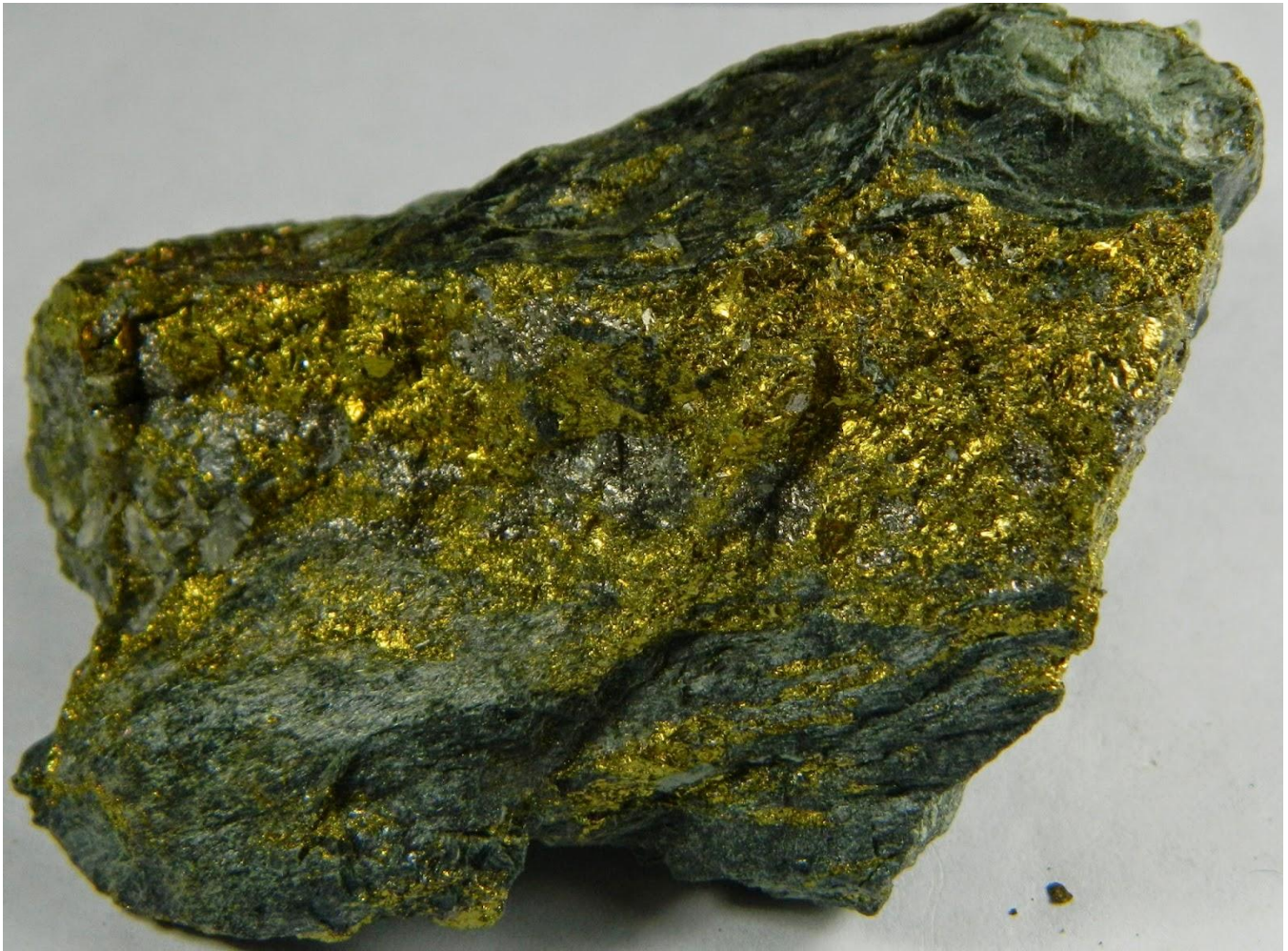
FORMULA

ORE FOR

(What metal(s) is (are) in the formula? See PTable.com)

TWO USES

MINERAL #6



STREAK BLACK / GREENISH

LUSTER METALLIC

MOHS HARDNESS SCRATCHES FINGERNAIL AND PENNY

OTHER PROPERTIES BRIGHT GOLDISH-COPPER SHEEN

COLOR _____

MINERAL NAME _____

FORMULA _____

ORE FOR _____ (What metal(s) is (are) in the formula? See PTable.com)

TWO USES _____

MINERAL #7



STREAK GREY / BLACK

LUSTER METALLIC

MOHS HARDNESS SCRATCHES FINGERNAIL

OTHER PROPERTIES REALLY DENSE, CUBIC CRYSTALS

COLOR _____

MINERAL NAME _____

FORMULA _____

ORE FOR _____

(What metal(s) is (are) in the formula? See PTable.com)

TWO USES _____

MINERAL #8



STREAK

WHITE

LUSTER

NON METALLIC - VITREOUS / PEARLY

MOHS HARDNESS

ABOUT AS HARD AS FINGERNAIL

OTHER PROPERTIES

TASTES LIKE SALT, CUBIC CRYSTALS

COLOR

MINERAL NAME

FORMULA

ORE FOR

_____ N/A _____

(What metal(s) is (are) in the formula? See PTable.com)

TWO USES

MINERAL #9



STREAK

RUSTY RED

LUSTER

METALLIC / DULL / EARTHY

MOHS HARDNESS

SCRATCHES FINGERNAIL AND PENNY

OTHER PROPERTIES

NOTICEABLY DENSE

COLOR

MINERAL NAME

FORMULA

ORE FOR

(What metal(s) is (are) in the formula? See PTable.com)

TWO USES

MINERAL #10



STREAK	GREY / BLACK
LUSTER	SUB-METALLIC - METALLIC
MOHS HARDNESS	SCRATCHES FINGERNAIL, PENNY AND NAIL
OTHER PROPERTIES	MAGNETIC
COLOR	_____
MINERAL NAME	_____
FORMULA	_____
ORE FOR	_____ (What <u>metal(s)</u> is (are) in the formula? See PTable.com)
TWO USES	_____ _____

MINERAL #11



STREAK

COLORLESS

LUSTER

NON METALLIC - GLASSY / VITREOUS

MOHS HARDNESS

SCRATCHES FINGERNAIL, PENNY, NAIL , AND GLASS. EASILY SCRATCHED BY DIAMOND

OTHER PROPERTIES

ONE FORM HAS 6-SIDED CRYSTALS.

COLOR

MINERAL NAME

FORMULA

ORE FOR

(What metal(s) is (are) in the formula? See PTable.com)

TWO USES

Summary Questions

1. List three characteristics that you found most helpful to identify a mineral and name the mineral to which that applied.

A

B

C

2. Tell specifically how two minerals above have been used in your life today.

