#### EPSC 221: GENERAL GEOLOGY

Lab 1:

Minerals

# Minerals—What are they?







#### Minerals—Identification

#### Diagnostic properties

- Lustre
- Colour
- Hardness
- Streak
- Fracture
- Cleavage
- Habit



## **LUSTRE**



- Metallic
- Adamantine
- Vitreous
- Resinous -
- Pearly\_\_\_\_Earthy\_\_\_









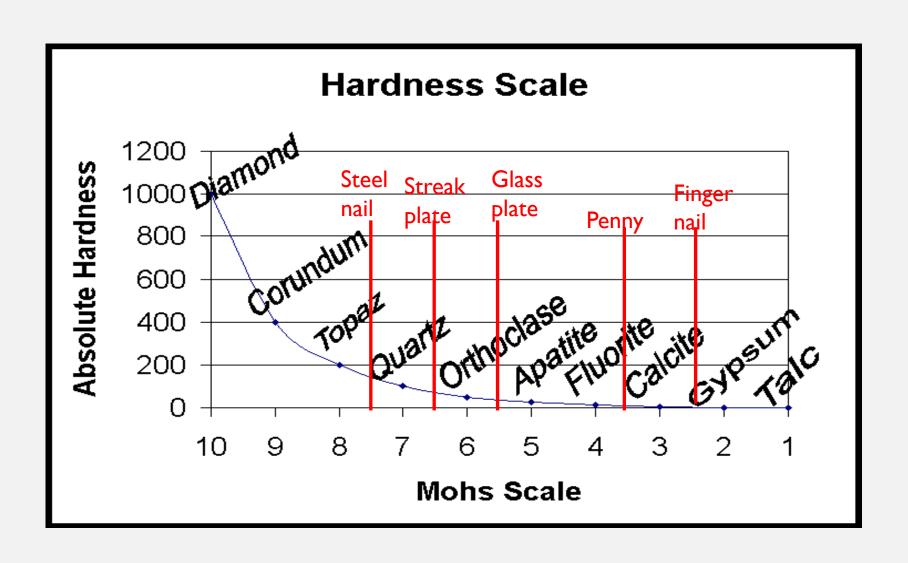


# COLOR



Not always diagnostic!

#### **HARDNESS**



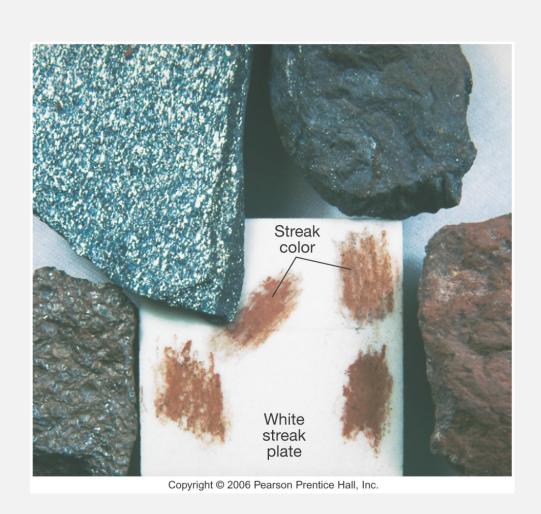
#### STREAK

# The colour of the mineral powder

#### Only works when

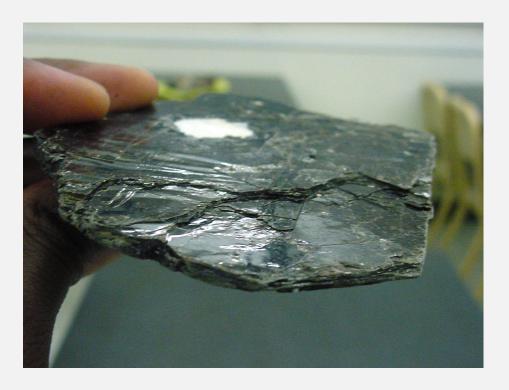
- a) streak is not white
- b) mineral is not harder than porcelain

Most useful for metallic minerals



## **FRACTURE**





Breaks randomly (e.g. conchoidal)

Breaks along a certain plane(s)

## **FRACTURE**

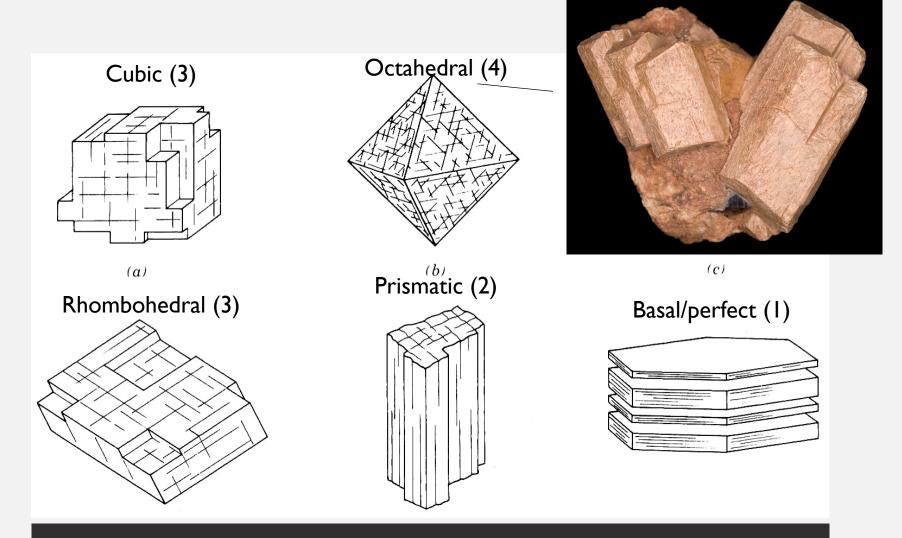




**Fibrous** 

Hackly or Jagged

#### **CLEAVAGE**



Cleavage in a certain number of "good" directions

