Properties of Common Minerals 波/분								
LUSTER	HARD- NESS	CLEAVA	FRACTU	COMMON Colors	DISTINGUISHING Characteristics	USE(S)	MINERAL NAME	COMPOSITION*
Metallic Luster	1–2	~		silver to gray	black streak, greasy feel	pencil lead, lubricants	Graphite	С
	2.5	~		metallic silver	very dense (7.6 g/cm ³), gray-black streak	ore of lead	Galena	PbS
	5.5–6.5		~	black to silver	attracted by magnet, black streak	ore of iron	Magnetite	Fe ₃ 0 ₄
	6.5		V	brassy yellow	green-black streak, cubic crystals	ore of sulfur	Pyrite	FeS ₂
Either	1–6.5		~	metallic silver or earthy red	red-brown streak	ore of iron	Hematite	Fe ₂ 0 ₃
Nonmetallic Luster	1	~		white to green	greasy feel	talcum powder, soapstone	Talc	Mg ₃ Si ₄ O ₁₀ (OH) ₂
	2		~	yellow to amber	easily melted, may smell	vulcanize rubber, sulfuric acid	Sulfur	S
	2	~		white to pink or gray	easily scratched by fingernail	plaster of paris and drywall	Gypsum (Selenite)	CaSO ₄ •2H ₂ O
	2–2.5	~		colorless to yellow	flexible in thin sheets	electrical insulator	Muscovite Mica	KAl ₃ Si ₃ O ₁₀ (OH) ₂
	2.5	~		colorless to white	cubic cleavage, salty taste	food additive, melts ice	Halite	NaCl
	2.5–3	~		black to dark brown	flexible in thin sheets	electrical insulator	Biotite Mica	K(Mg,Fe) ₃ AlSi ₃ O ₁₀ (OH) ₂
	3	~		colorless or variable	bubbles with acid	cement, polarizing prisms	Calcite	CaCO ₃
	3.5	~		colorless or variable	bubbles with acid when powdered	source of magnesium	Dolomite	CaMg(CO ₃) ₂
	4	~		colorless or variable	cleaves in 4 directions	hydrofluoric acid	Fluorite	CaF ₂
	5–6	~		black to dark green	cleaves in 2 directions at 90°	mineral collections	Pyroxene (commonly Augite)	(Ca,Na) (Mg,Fe,Al) (Si,Al) ₂ 0 ₆
	5.5	~		black to dark green	cleaves at 56° and 124°	mineral collections	Amphiboles (commonly Hornblende)	$\begin{array}{c} \text{CaNa(Mg,Fe)}_4 \text{ (AI,Fe,Ti)}_3 \\ \text{Si}_6 \text{O}_{22} \text{(0,OH)}_2 \end{array}$
	6	~		white to pink	cleaves in 2 directions at 90°	ceramics and glass	Potassium Feldspar (Orthoclase)	KAISi ₃ 0 ₈
	6	~		white to gray	cleaves in 2 directions, striations visible	ceramics and glass	Plagioclase Feldspar (Na-Ca Feldspar)	(Na,Ca)AlSi ₃ O ₈
	6.5		~	green to gray or brown	commonly light green and granular	furnace bricks and jewelry	Olivine	(Fe,Mg) ₂ SiO ₄
	7		~	colorless or variable	glassy luster, may form hexagonal crystals	glass, jewelry, and electronics	Quartz	SiO ₂
	7		~	dark red to green	glassy luster, often seen as red grains in NYS metamorphic rocks	jewelry and abrasives	Garnet (commonly Almandine)	Fe ₃ Al ₂ Si ₃ O ₁₂
	*Chemical S	ymbo	ls:	Al = aluminum C = carbon Ca = calcium	CI = chlorineH = hydrogenF = fluorineK = potassiumFe = ironMg = magnesi	Na = sodiu n O = oxyger ium Pb = lead	m S = sulfur Si = silicon Ti = titanium	

I = dominant form of breakage