TABLE 1.2 METALLIC AND SUBMETALLIC LUSTRE  Compiled by K. Panchuk. Use: CC BY-NC-SA 4.0							
Hardness	Streak	Cleavage directions	Other Properties C Colour H Hardness SG Specific Gravity	Mineral			
H ≥ 5	Greenish black to brownish black	POOR or ABSENT	C Brass or dull gold, tarnishes bronze.  H 6-6.5. SG 5. Frequently massive, may occur in cubes or octahedrons, flat surfaces may be striated.	PYRITE			
	Black		C Greyish black. H 5.5-6.5. SG 5.2.  Frequently massive, magnetic.	MAGNETITE			
	Red to reddish brown		C Steel grey, silvery with a reddish hint, or bright silver. H 5-6. SG 5.3.  Frequently massive. Note: Can also be dark red with an earthy lustre.	HEMATITE			
H < 5 Does not scratch glass	Greenish black		C Bright yellow gold, tarnishes iridescent. H 3.5-4. SG 4.2. Frequently massive.	CHALCOPYRITE			
	Black to dark grey		C Dark silver grey to black. H 1-2. SG 2.1. Frequently massive, prone to leaving grey residue on surfaces, clothing, and hands.	GRAPHITE			
	White to pale yellowish brown Check for a rotten egg smell.	6 Perfect	C Variable. Silver grey, brown shades, red shades, yellow shades. H 3.5-4. SG 4.0. Red/yellow/brown varieties may have adamantine or resinous lustre.	SPHALERITE			
	Lead grey	3 at 90° Perfect cubic cleavage	C Lead grey. H 2.5. SG 7.6. Very heavy. Cubic cleavage and crystal form often visible. Cube corners are clipped to form triangles.	GALENA			

## TABLE 1.3 NON METALLIC LUSTRE: Dark & Medium Colours

BLACK, BROWN, DARK to MEDIUM GREEN, DARK to MEDIUM BLUE

Compiled by K. Panchuk. Use: CC BY-NC-SA 4.0

Hardness	Cleavage directions  Other Properties  C Colour L Lustre St Streak  H Hardness SG Specific Gravity		Mineral
H ≥ 5	ABSENT	C Olive green, translucent or transparent. L Vitreous. St Colourless. H 6.5-7. SG 3.3. May resemble green granulated sugar.	OLIVINE
	2 at 56° and 124° Prismatic cleavage	C Black to greenish black. Opaque. L Vitreous. St Pale grey to colourless H 5-6. SG 2.9-3.4. Crystals are prismatic and elongated	<b>AMPHIBOLE</b> (var. hornblende)
	2 at nearly 90° Prismatic cleavage	C Black to greenish black. Opaque. L Vitreous. St Light greenish grey to colourless. H 5.5-6. SG 3.2- 3.6. Crystals are prismatic but stubby.	<b>PYROXENE</b> (var. augite)
	POOR	C Green, brown, blue, or purple. Translucent or transparent. L Vitreous. St Colourless H 5. SG 3.2. May display hexagonal prisms, conchoidal fracture.	APATITE
H < 5	4 Octahedral cleavage	C Green, blue, purple, grey, or yellow. Translucent to transparent. L Vitreous. St Colourless H 4. SG 3.2-3.6. May form as cubes.	FLUORITE
	1 Perfect basal cleavage	C Brown to black. L Pearly to vitreous. H 2.5-3. SG 2.7-3.3. Breaks apart into thin elastic sheets. Thin sheets may be translucent.	BIOTITE (mica)

## TABLE 1.4 NON METALLIC LUSTRE: Light Colours

PINK, PALE SHADES, WHITE

Compiled by K. Panchuk. Use: CC BY-NC-SA 4.0

	Cleavage directions	Other Properties		
Hardness		C Colour L Lustre St Streak	Mineral	
		H Hardness SG Specific Gravity		
<b>H≥6</b> Scratches glass	ABSENT Conchoidal fracture	C Colourless, grey, white, pink, purple. Translucent to transparent. L Vitreous. St Colourless. H 7. SG 2.6. May occur as hexagonal prisms capped with pyramids.	QUARTZ	
	2 at nearly 90°  Prismatic cleavage	C White to light grey. Translucent to transparent. L Vitreous. St Colourless H 6-6.5. SG 2.6. Striations may be present.	PLAGIOCLASE FELDSPAR (var. albite)	
	2 at 90° Prismatic cleavage	C Salmon coloured, pink, green, or white. Opaque. L Vitreous. St Colourless. H 6-6.5. SG 2.5-2.6. Wavy coloured lines on cleavage surfaces.	POTASSIUM FELDSPAR	
H < 5 Does not scratch glass	<b>4</b> Octahedral	C Green, blue, purple, grey, or yellow. Translucent to transparent. L Vitreous. St Colourless H 4. SG 3.2-3.6. May form as cubes.	FLUORITE	
	3 not at 90°  Perfect rhombohedral cleavage  C Colourless, white, yellow. Translucent to transparent. L Vitreous. St White. H 3. SG 2.7.  Reacts to hydrochloric acid by fizzing.		CALCITE	
	1 Perfect basal cleavage	C Colourless, light brown, yellow. L Pearly to vitreous. St White. H 2.5-3. SG 2.8. Breaks apart into thin elastic sheets. Thin sheets may be translucent or transparent.	MUSCOVITE (mica)	
	3 at 90° Perfect cubic cleavage	C Colourless, white, blue. Translucent to transparent. L Vitreous. H 2.5. SG 2.2. Salty taste. Water soluble.	HALITE	
	3* *1 perfect, 2 poor.	C Colourless to white. Transparent. L Vitreous, pearly, or silky. St White. H 2-2.5. SG 2.7. Water soluble.	<b>GYPSUM</b> (var. selenite)	