

Roc	k type:	Igneous Rock
	mation vironment:	Underground deep under a continental volcano
Des	cription:	100% visible, large, interlocking crystals Quartz, K-Feldspar, Muscovite, Biotite (light colored and low density)
Nar	ne:	Granite
Sou pict	rce of ure	K. Wiese



ock type:	Igneous Rock
ormation nvironment:	Surface eruption of an oceanic volcano
escription:	Most crystals too small to see Dark colored and high density
ame:	Basalt
ource of picture	K. Wiese
	ame:

Rock type:	Metamorphic Rock
Formation Environment:	Hydrothermal metamorphism of mantle rock under a seafloor spreading center
Description:	Mottled green color Smooth, slick sides - - Looks like squished watermelon seeds
Name:	Serpentinite
Source of picture	K. Wiese



8	Rock type:	Chemically precipitated sedimentary rock
	Formation Environment:	Deep ocean floor under areas of upwelling (surface waters cool and nutrient rich), where silica shells from dead diatoms and/or radiolarian collect.
が中国になる	Description:	Chemical (Smooth and glassy) 100% SiO <sub>2</sub> composition (doesn't react with acid)
100 000	Name:	Chert
	Source of picture	K. Wiese
07		



Rock type:	Clastic sedimentary rock (rock fragments)
Formation Environment:	Deep ocean floor or outer continental shelf or near-shore stillwater lagoon
Description:	Mud-sized rock and mineral fragments
Name:	Mudstone
Source of picture	K. Wiese



Rock type:	Clastic sedimentary rock (rock fragments)
Formation Environment:	Inner continental shelf, beach, or submarine canyon – could be shore sand dunes
Description:	Sand-sized rock and mineral fragments Grains are mostly quartz
Name:	Quartz Sandstone
Source of picture	K. Wiese



Rock type:	Clastic sedimentary rock (rock fragments)
Formation Environment:	Inner continental shelf, beach, or submarine canyon – could be shore sand dunes
Description:	Sand-sized rock and mineral fragments Grains are mostly rock fragments
Name:	Graywacke sandstone
Source of picture	K. Wiese



Rock type:	Clastic sedimentary rock (rock fragments)
Formation Environment:	Base of rock avalanche, rock fall, or landslide. Or along fault zone. Area where rocks shatter and there's no water to smooth the rough edges.
Description:	Gravel-, sand-, and mud-sized rock and mineral fragments – angular grains grains are a mixture of rock fragments and minerals
Name:	Breccia
Source of picture	K. Wiese



Rock type:	Clastic sedimentary rock (rock fragments)
Formation Environment:	Rocky headland with high wave action (to round the gravels) or base of cliff along river.
Description:	Gravel-, sand-, and mud-sized rock and mineral fragments – rounded grains grains are a mixture of rock fragments and minerals
Name:	Conglomerate
Source of picture	K. Wiese