

Intermediate Science 7

Unit 4: Earth's Crust

Study Guide For Test 2



Know the following:

Rock	Mineral	Element
Streak	Lustre	Transparent
Translucent	Opaque	Effervescence
Crystal	Fracture	Cleavage
Igneous Rock	Magma	Lava
Sedimentary Rock	Bed	Sediment
Metamorphic Rock	Rock Cycle	Fossil

Know the following:

1. Define mineral
2. List and describe properties of minerals, including:
 - (i) colour
 - (ii) streak
 - (iii) lustre
 - (iv) hardness
 - (v) cleavage
 - (vi) fracture
3. Using a classification key, identify common minerals, including:
 - (i) quartz
 - (ii) calcite
 - (iii) magnetite
 - (iv) mica
 - (v) pyrite
 - (vi) galena
 - (vii) gypsum
 - (viii) talc
 - (ix) feldspar
 - (x) hematite
4. Define rock
5. Define igneous rock and describe their formation
6. Differentiate between intrusive and extrusive igneous rocks using examples, including:
 - (i) granite (intrusive)
 - magma
 - (ii) basalt (extrusive)
 - lava
7. Define sedimentary rocks and describe their formation

8. List and show examples of sedimentary rocks, including:
 - (i) shale (small particles)
 - (ii) sandstone (medium particles)
 - (iii) conglomerate (large particles)
 - (iv) limestone (plant and animal particles)
9. Define metamorphic rock
10. Describe the formation of metamorphic rocks
11. List examples of metamorphic rocks and their parent rock, including:
 - (i) slate from shale
 - (ii) marble from limestone
 - (iii) quartzite from sandstone
 - (iv) gneiss from granite
12. Sketch and label a diagram of the rock cycle
13. Recognize the relationship between various types of rocks (igneous, sedimentary, metamorphic)
14. develop a chronological model or geological time scale of major events in Earth's history (209-4, 311-6)
15. describe the geologic time scale in terms of the four main eras and the major events that occurred in each, including:
 - (i) Precambrian era – formation of the Earth and appearance of simple life forms
 - (ii) Paleozoic era – appearance of more complex life forms
 - (iii) Mesozoic era – appearance and extinction of dinosaurs
 - (iv) Cenozoic era – appearance of humans

THE EARTH'S CRUST

