

Name _____ Date _____ Period _____

MIDTERM EXAM STUDY GUIDE

Science 9
Mr. Zunick

FORMAT:

100 multiple choice questions
10 short answer questions

SHORT ANSWER (CHOOSE ANY 10 OF THE FOLLOWING QUESTIONS):

1. Draw and explain rip currents, parts of a wave, spring tides, and neap tides.
2. Be able to draw and describe the various forms of weathering and erosion. This refers to the “20 pictures” from chapters 7 and 8.
3. Know the 3 types of rocks. Draw and label the rock cycle. The diagram will NOT be given to you.
4. Read a world map and a topographic map and answer questions about them.
5. Draw the Atlantic Ocean floor from New Jersey to Portugal. Draw and label all of the parts. Include an explanation of the DPB located at the Mid-Atlantic Ridge.
6. Review all of the locations on the “Plate Boundaries” chart. Be able to explain how various locations have formed (divergent, C/C convergent, C/O convergent, transform-fault). Also know how the Grand Canyon was formed.
7. Be able to draw orbital diagrams for different elements. Know how to determine if an element is reactive (able to make a bond) or non-reactive (not able to make a bond).
8. Know the five-part definition of a mineral. Know the difference between a mineral and a rock. Know all of the mineral tests. Know what kinds of tests are used for rocks, and whether or not they are different from mineral tests.
9. Know all about Pangaea and continental drift. Be able to explain all 4 types of evidence (Pangaea, rock clues, climate clues, fossil clues) from the chapter 10 notes. Also be able to draw and discuss sea-floor spreading.
10. Know each of the following minerals: talc, kaolin, mica, graphite, halite, quartz, magnetite, amethyst, galena, diamond.
11. Explain some of the various “ZUNICKisms” that we learned about this year.

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Chapter 1:

steps in the scientific method, variable, control, hypothesis, theory, law

Chapter 2:

atom, element, proton, neutron, electron, compound, mixture, chemical property, physical property, states of matter, density, left/right of the staircase

Chapter 3:

definition of mineral, properties of minerals, gem, ore, titanium

Chapter 4:

definition of rock, rock cycle, igneous, metamorphic, sedimentary, intrusive, extrusive, basaltic, granitic, andesitic, heat and pressure, foliated, non-foliated, compaction, cementation, clastic, chemical, organic, pumice, granite, obsidian, slate, limestone, sandstone

Chapter 6:

latitude, longitude, Mercator, Robinson, conic, topographic, distortion, time zones, international date line, contour lines

Chapter 7:

definition of weathering, mechanical weathering, chemical weathering

Chapter 8:

definitions of erosion and deposition, slump, creep, rockslide, mudflow, how to reduce erosion, terrace, retaining wall, continental glacier, valley glacier, plucking, outwash, till, deflation, abrasion, sand storm, dust storm, sand dune

Chapter 10:

continental drift, Pangaea, fossil clues, climate clues, rock clues, seafloor spreading, alternating bands of magnetism, subduction zone (trench), 3 types of boundaries, ALL examples of boundaries from your chart and map, convection currents in the mantle

Chapter 11:

normal fault, reverse fault, strike-slip fault

Chapter 18:

surface currents, upwelling, waves, crest, trough, breaker, tides, spring + neap tides

Chapter 19:

continental shelf, continental slope, abyssal plain, mid-ocean ridge, trench



GOOD LUCK ON YOUR MIDTERM EXAM!

