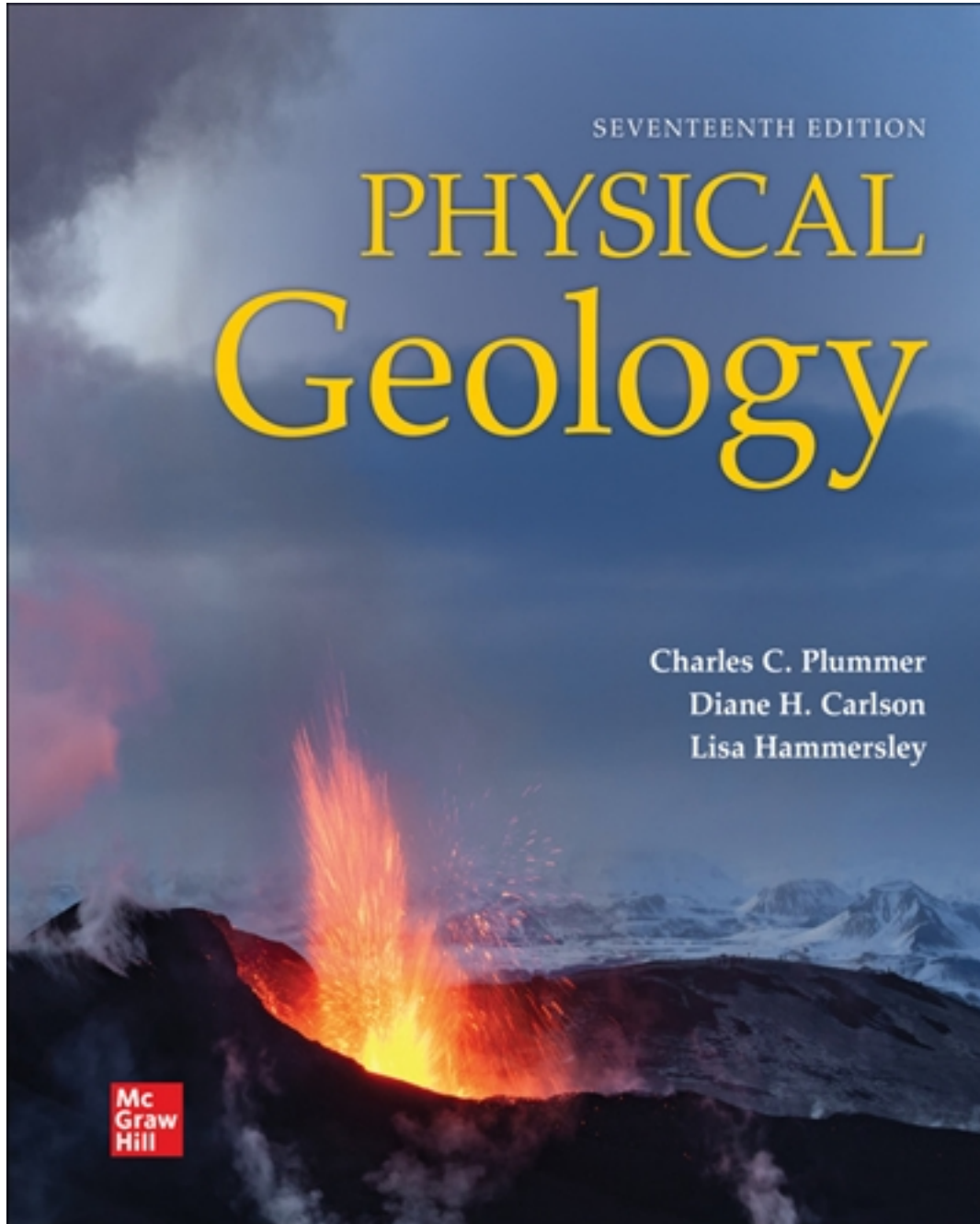


# Test Bank for Physical Geology 17th Edition by Plummer

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# Test Bank

# Physical Geology 17th Edition by Plummer CH01

ANSWERS ARE LOCATED IN THE SECOND PART OF THIS DOCUMENT

**TRUE/FALSE - Write 'T' if the statement is true and 'F' if the statement is false.**

1) We depend on the Earth for the energy resources and raw materials we need for survival.  
1) \_\_\_\_\_

- ☐ true
- ☐ false

## Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

2) Most deaths associated with volcanic eruptions are due to burns of lava flows.  
2) \_\_\_\_\_

- ☐ true
- ☐ false

## Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

3) A tsunami has a small wave height, travels rapidly, and is not noticed by people in boats.  
3) \_\_\_\_\_

- ☐ true
- ☐ false

## Physical Geology 17th Edition by Plummer CH01

### Question Details

Bloom's : 1. Remember

Topic : Earthquakes

Topic : Shorelines

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

4) While the reserves of petroleum hydrocarbons within the United States are limited, other geologic resources (iron, aluminum, copper, and tin) are available in great abundance.

4) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Mineral Resources

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

5) Geology uses the scientific method to explain natural aspects of the Earth.

5) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

6) Deeply buried rock that is hot and under pressure can deform like taffy or putty.

## Physical Geology 17th Edition by Plummer CH01

6) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 2. Understand

Topic : Metamorphism

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.02 Define a system, and describe the four Earth systems (spheres).

7) Ocean - ocean plate convergence formed major mountain belts such as the Andes and Cascades.

7) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

8) The mantle is the most voluminous of Earth's three major concentric zones.

8) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.

## Physical Geology 17th Edition by Plummer CH01

9) Earth's lithosphere is made up of the crust and uppermost part of the mantle.

9) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.05 Describe the lithosphere and the asthenosphere.

10) Understanding geology can help us lessen or prevent damage to the environment.

10) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 2. Understand

Topic : Nature of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

11) Most convergent plate boundaries coincide with the crests of submarine mountain ranges called mid-oceanic ridges.

11) \_\_\_\_\_

- ☐ true
- ☐ false

## Physical Geology 17th Edition by Plummer CH01

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**12)** Plate tectonics regards the lithosphere as divided into segments (plates) that are in horizontal motion.

12) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**13)** A transform plate boundary occurs where two plates converge.

13) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**14)** Convergent boundaries, due to their geometry, are the sites of the largest earthquakes on Earth.

## Physical Geology 17th Edition by Plummer CH01

14) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

15) After the opening of the North Slope in Alaska the U.S. stopped importing petroleum.

15) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Energy Resources

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

16) North America is all on one plate.

16) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

## Physical Geology 17th Edition by Plummer CH01

17) Rocks formed at high temperatures and under high pressure deep within the Earth and pushed upward by tectonic force are stable in their new environment.

17) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 2. Understand

Topic : Metamorphism

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

18) Rocks brought to the earth's surface by internal processes are worn down, and eroded by surficial processes.

18) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 1. Remember

Topic : Erosion

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

19) The Earth is about 4.6 billion years old.

19) \_\_\_\_\_

- ☐ true
- ☐ false



## Physical Geology 17th Edition by Plummer CH01

### Question Details

Bloom's : 1. Remember

Topic : Geologic Time

Section : 01.04 Geologic Time

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.08 Know the age of the Earth.

20) The Earth can be considered as interrelated systems or spheres.

20) \_\_\_\_\_

- ☐ true
- ☐ false

### Question Details

Bloom's : 2. Understand

Topic : Nature of Geology

Section : 01.02 Earth Systems

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.02 Define a system, and describe the four Earth systems (spheres).

**CHECK ALL THE APPLY. Choose all options that best completes the statement or answers the question.**

21) Erosion is a result of Earth's external heat engine, powered by (choose all that apply)

21) \_\_\_\_\_

- A) the Sun
- B) gravity
- C) heat flowing from Earth's interior outward

### Question Details

Topic : Study of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Subtopic : Important Concepts of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

## Physical Geology 17th Edition by Plummer CH01

**MULTIPLE CHOICE - Choose the one alternative that best completes the statement or answers the question.**

**22)** The Earth's system that includes the oceans, rivers, lakes, and glaciers of the world is called the \_\_\_\_\_.

22) \_\_\_\_\_

- A) biosphere
- B) hydrosphere
- C) atmosphere
- D) geosphere
- E) solid Earth

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Section : 01.02 Earth Systems

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.02 Define a system, and describe the four Earth systems (spheres).

**23)** The \_\_\_\_\_ and the Alpine Fault of New Zealand are examples of transform plate boundaries.

23) \_\_\_\_\_

- A) New Madrid Fault of Arkansas
- B) Choctaw Fault of Oklahoma
- C) San Andreas Fault of California
- D) East African Rift
- E) Rio Grande Rift

## Physical Geology 17th Edition by Plummer CH01

### Question Details

Bloom's : 2. Understand

Topic : Deformation

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

24) A \_\_\_\_\_ is a huge ocean wave usually caused by a displacement of the sea floor and commonly associated with massive earthquakes.

24) \_\_\_\_\_

- A) S-wave
- B) tidal wave
- C) tsunami
- D) seiche
- E) breaker

### Question Details

Bloom's : 1. Remember

Topic : Earthquakes

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

25) A \_\_\_\_ is a hot, turbulent mixture of expanding gases and volcanic ash that flows rapidly down the side of a volcano.

25) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) pyroclastic cloud
- B) mud flow
- C) lava flow
- D) pyroclastic flow
- E) hyaloclastic flow

### Question Details

Bloom's : 1. Remember

Topic : Igneous Environments

Topic : Volcanoes and Volcanic Hazards

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

**26)** Eruptive activity at the summit of the Nevado del Ruiz volcano in Colombia in 1985 caused snow and ice to melt, generating a \_\_\_\_ that killed 23,000 people in the village of Armero.

26) \_\_\_\_\_

- A) gas cloud
- B) mud flow
- C) lava flow
- D) pyroclastic flow
- E) hyaloclastic flow

### Question Details

Bloom's : 1. Remember

Topic : Unstable Slopes

Topic : Volcanoes and Volcanic Hazards

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

**27)** To understand geology one must understand how the solid Earth interacts with water, air, and living organisms. For this reason, it is useful to think of Earth as being part of a \_\_\_\_.

## Physical Geology 17th Edition by Plummer CH01

27) \_\_\_\_\_

- A) hydrosphere
- B) system
- C) trend
- D) group
- E) formation

### Question Details

Bloom's : 2. Understand

Topic : Nature of Geology

Section : 01.02 Earth Systems

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.02 Define a system, and describe the four Earth systems (spheres).

28) Among other things, geologists are employed as \_\_\_\_.

28) \_\_\_\_\_

- A) petroleum geologists
- B) environmental geologists
- C) marine geologists
- D) hydrogeologists
- E) All of the answers are correct.

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

29) Rock deep within the Earth is \_\_\_\_\_ and \_\_\_\_\_.

29) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) hot; heat flows inward toward Earth's center.
- B) cool; heat flows in toward Earth's center
- C) hot; heat flows out toward Earth's surface
- D) the same temperature throughout the earth; heat flow is not an important consideration
- E) unknown; we can only guess about conditions there

### Question Details

Bloom's : 2. Understand

Topic : Igneous Environments

Section : 01.02 Earth Systems

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

30) Earth's external heat engine is driven by \_\_\_\_.

30) \_\_\_\_\_

- A) solar energy
- B) residual cosmic radiation from the Big Bang
- C) the decay of radioactive isotopes
- D) tides
- E) meteor impacts

### Question Details

Bloom's : 1. Remember

Topic : Climate, Weather, and Their Influences on Geology

Section : 01.02 Earth Systems

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

31) \_\_\_\_ refer(s) to the scientific study of Earth.

31) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) Hydrology
- B) Geology
- C) Spheres

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

32) The Earth's interior heat engine works because hot buoyant material deep within the Earth \_\_\_\_\_ while cold denser material \_\_\_\_\_.

32) \_\_\_\_\_

- A) moves upward; moves downward
- B) contracts and sinks; expands and rises
- C) contracts and rises; expands and sinks
- D) expand and sinks; contract and rises

### Question Details

Bloom's : 2. Understand

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

33) The \_\_\_\_\_ is the most voluminous of the Earth's three major concentric zones.

33) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) core
- B) mantle
- C) lithosphere
- D) asthenosphere
- E) crust

### Question Details

Bloom's : 1. Remember

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.

34) Listed from Earth's center outward, the three concentric zones of Earth are the \_\_\_\_.

34) \_\_\_\_\_

- A) crust, mantle, core
- B) mantle, crust, core
- C) core, crust, mantle
- D) mantle, core, crust
- E) core, mantle, crust

### Question Details

Bloom's : 1. Remember

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.

35) A \_\_\_\_\_ is a scientific concept that has been tested and is in all likelihood true.

35) \_\_\_\_\_



## Physical Geology 17th Edition by Plummer CH01

- A) concept
- B) hypothesis
- C) theory
- D) scenario
- E) belief

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.07 Summarize the scientific method, and define the meaning of the word theory

36) \_\_\_\_\_ are geological forces generated inside the Earth.

36) \_\_\_\_\_

- A) Surficial forces
- B) Electrochemical forces
- C) Tectonic forces
- D) Inertial
- E) Celestial

### Question Details

Bloom's : 1. Remember

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

37) Earthquakes, volcanic eruptions, landslides, floods, and tsunamis are all examples of:

37) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) earth-altering processes.
- B) earth hazards.
- C) geologic resources.
- D) geospheric processes.
- E) geologic hazards

### Question Details

Bloom's : 2. Understand

Topic : Unstable Slopes

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

38) The \_\_\_\_\_ collectively make up the lithosphere.

38) \_\_\_\_\_

- A) the crust and the whole mantle
- B) the crust and the uppermost part of the mantle
- C) the crust and asthenosphere
- D) the upper and lower mantle
- E) the asthenosphere and the upper mantle

### Question Details

Bloom's : 2. Understand

Topic : Earth's Interior

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.05 Describe the lithosphere and the asthenosphere.

39) The \_\_\_\_\_ is soft and therefore flows more readily than the underlying mantle.

39) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) crust
- B) asthenosphere
- C) lithosphere
- D) core
- E) plate

### Question Details

Bloom's : 2. Understand

Topic : Earth's Interior

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.05 Describe the lithosphere and the asthenosphere.

40) A hypothesis that passes repeated tests ultimately becomes \_\_\_\_.

40) \_\_\_\_\_

- A) a guess
- B) an observation of a phenomenon
- C) a first, tentative idea to explain a phenomenon
- D) a theory
- E) a proven law of nature

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.07 Summarize the scientific method, and define the meaning of the word theory

41) After data have been analyzed, tentative explanations or solutions called \_\_\_\_\_ may be proposed.

41) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) a guess
- B) an observation of a phenomenon
- C) hypotheses
- D) a concept that has been tested reproducibly and is likely to be true
- E) a proven law of nature

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.07 Summarize the scientific method, and define the meaning of the word theory

42) Plate tectonics is a unifying idea that helps explain where and why there are \_\_\_\_ on Earth.

42) \_\_\_\_\_

- A) earthquakes
- B) volcanoes
- C) mountain belts
- D) oceanic ridges and trenches
- E) All of the answers are correct.

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

43) The two major types of crust are oceanic crust and \_\_\_\_.

43) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) continental crust
- B) lithosphere
- C) convergent crust
- D) thin crust

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.

44) Earth can be visualized as a giant machine driven by which of the following engines?

44) \_\_\_\_\_

- A) solar and internal
- B) regional and local
- C) expanding and condensing
- D) surficial and heat
- E) buried and exposed

### Question Details

Bloom's : 3. Apply

Topic : Earth's Interior

Topic : Nature of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and list

45) The concept of plate tectonics regards the Earth's \_\_\_\_ as broken into a number of \_\_\_\_ that are in motion relative to each other.

45) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) crust; plates
- B) mantle; plates
- C) asthenosphere; plates
- D) lithosphere; plates
- E) plates; lithosphere

### Question Details

Bloom's : 1. Remember

Topic : Earth's Interior

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

46) A \_\_\_\_\_, by scientists' definition, is something that has been overwhelmingly verified.

46) \_\_\_\_\_

- A) hypothesis
- B) guess
- C) prediction
- D) theory

### Question Details

Bloom's : 1. Remember

Topic : Nature of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.07 Summarize the scientific method, and define the meaning of the word theory

47) Plates are known to be moving away from each other \_\_\_\_.

47) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) across mountain ranges like the Himalayan Mountains
- B) across subduction zones
- C) across mid-ocean ridges
- D) across the stable interior of continents
- E) along transform faults

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

48) A \_\_\_\_\_ boundary occurs where plates move towards one another.

48) \_\_\_\_\_

- A) convergent
- B) concurrent
- C) rift
- D) abutting
- E) transform

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

49) The \_\_\_\_\_ of old seafloor takes place at convergent boundaries.

49) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) destruction
- B) creation
- C) production
- D) erosion
- E) extinction

### Question Details

Bloom's : 1. Remember

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

50) The North American plate is moving \_\_\_\_.

50) \_\_\_\_\_

- A) north
- B) south
- C) west
- D) east
- E) nowhere, it's fixed

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

51) Where a subducting plate slides beneath the lithosphere, melting takes place and a(n) \_\_\_\_\_ is created.

51) \_\_\_\_\_



## Physical Geology 17th Edition by Plummer CH01

- A) plate
- B) ocean trench
- C) seamount
- D) sedimentary rock
- E) coral reef

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

52) Rocks may be transformed by heat and pressure into \_\_\_\_\_ rock.

52) \_\_\_\_\_

- A) soil
- B) igneous
- C) granite
- D) metamorphic
- E) All of the answers are correct.

### Question Details

Bloom's : 2. Understand

Topic : Metamorphism

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

53) The product of the breakdown of surface rocks by weathering and erosion is \_\_\_\_.

53) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) lava
- B) magma
- C) sediment
- D) quartz
- E) ash

### Question Details

Bloom's : 2. Understand

Topic : Weathering

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

54) With the cementation of loose particles sediment becomes \_\_\_\_\_.

54) \_\_\_\_\_

- A) molten
- B) metamorphic
- C) lithified
- D) igneous
- E) basalt

### Question Details

Bloom's : 2. Understand

Topic : Sedimentary Environments

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

55) \_\_\_\_\_ takes place where moving water, ice, and wind loosen and remove material on the continents.

55) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) Burial
- B) Metamorphism
- C) Melting
- D) Subsidence
- E) Erosion

### Question Details

Bloom's : 1. Remember

Topic : Sedimentary Environments

Topic : Weathering

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

**56)** Disintegration of rock at Earth's surface may be facilitated by water \_\_\_\_.

56) \_\_\_\_\_

- A) flowing on the surface in streams and as runoff
- B) frozen in a glacier that is flowing over the surface
- C) moving through near-surface pores and fractures
- D) present as vapor in the atmosphere
- E) A and B are correct.

### Question Details

Bloom's : 2. Understand

Topic : Weathering

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

**57)** A(n) \_\_\_\_ may eventually be formed as layers of sediment are buried by subsequent layers of sediment.

57) \_\_\_\_\_

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- A) igneous rock
- B) metamorphic rock
- C) sedentary rock
- D) sedimentary rock
- E) foliated rock

### Question Details

Bloom's : 2. Understand

Topic : Sedimentary Environments

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

**58)** The best geologic data currently available indicates that Earth is approximately \_\_\_\_ years old.

58) \_\_\_\_\_

- A) 4,550
- B) 4,550,000
- C) 4,550,000,000
- D) 4,550,000,000,000
- E) 4,550,000,000,000,000

### Question Details

Bloom's : 1. Remember

Topic : Geologic Time

Section : 01.04 Geologic Time

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.08 Know the age of the Earth.

**59)** Which of the following lifeforms appeared first in the geologic record?

59) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) dinosaurs
- B) mammals
- C) plants
- D) fishes
- E) reptiles

### Question Details

Bloom's : 1. Remember

Topic : Geologic Time

Section : 01.04 Geologic Time

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.08 Know the age of the Earth.

**60)** Fossil evidence indicates that complex life forms have existed in abundance on Earth since approximately \_\_\_\_ years ago.

60) \_\_\_\_\_

- A) 5,410
- B) 541 thousand
- C) 541 million
- D) 5,410,000,000
- E) 541,000,000,000

### Question Details

Bloom's : 1. Remember

Topic : Geologic Time

Section : 01.04 Geologic Time

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.08 Know the age of the Earth.

**61)** Fossil evidence indicates that dinosaurs became extinct approximately \_\_\_\_ years ago.

61) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) 66 thousand
- B) 660 thousand
- C) 6,600,000
- D) 66 million
- E) 660,000,000

### Question Details

Bloom's : 1. Remember

Topic : Geologic Time

Section : 01.04 Geologic Time

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.08 Know the age of the Earth.

**62)** What is the correct order of the geologic eras listed, from oldest to youngest?

62) \_\_\_\_\_

- A) Cenozoic, Mesozoic, Paleozoic
- B) Mesozoic, Paleozoic, Cenozoic
- C) Paleozoic, Mesozoic, Cenozoic
- D) Cenozoic, Paleozoic, Mesozoic

### Question Details

Bloom's : 1. Remember

Topic : Geologic Time

Section : 01.04 Geologic Time

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.08 Know the age of the Earth.

**63)** Motion at a transform plate boundary is \_\_\_\_\_.

63) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) horizontal
- B) vertical
- C) oblique

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**64)** What type of plate boundary is associated with a rift?

64) \_\_\_\_\_

- A) convergent
- B) divergent
- C) transform
- D) new
- E) old

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**65)** What country experienced a 9.0 earthquake and associated tsunami off its coast in March 2011 yet fared relatively well from such a disaster because of their preparedness?

65) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) Japan
- B) Peru
- C) United States
- D) New Zealand
- E) Haiti

### Question Details

Bloom's : 1. Remember

Topic : Earthquakes

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**66)** A portion of the continental crust may move upward after a period of significant erosion to maintain balance through the process of \_\_\_\_\_.

66) \_\_\_\_\_

- A) volcanism
- B) sedimentation
- C) metamorphism
- D) isostatic adjustment
- E) lithification

### Question Details

Bloom's : 2. Understand

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

**67)** Rock that forms from solidified magma is \_\_\_\_\_ rock.

67) \_\_\_\_\_



## Physical Geology 17th Edition by Plummer CH01

- A) igneous
- B) metamorphic
- C) sedimentary

### Question Details

Bloom's : 1. Remember

Topic : Rocks

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

68) Oceanic crust is created at \_\_\_\_\_ and destroyed at \_\_\_\_\_.

68) \_\_\_\_\_

- A) subduction zones; oceanic ridges
- B) oceanic-ridges; subduction zones
- C) subduction zones; transform boundaries
- D) transform boundaries; subduction zones
- E) trenches; rifts

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

69) Which of the following layers of Earth is a liquid?

69) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) crust
- B) mantle
- C) outer core
- D) inner core

### Question Details

Bloom's : 1. Remember

Topic : Earth's Interior

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.

70) Plate tectonics emerged as a science in the 1960s, and was based on the earlier hypothesis of \_\_\_\_\_.

70) \_\_\_\_\_

- A) evolution
- B) planetesimals
- C) electromagnetism
- D) continental drift
- E) nebular formation

### Question Details

Bloom's : 2. Understand

Topic : Plate Tectonics

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

71) Plate tectonics is a result of Earth's internal heat engine, powered by

71) \_\_\_\_\_

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- A) the Sun
- B) gravity
- C) heat flowing from Earth's interior outward

### Question Details

Topic : Earth's Interior

Topic : Plate Tectonics

Language Focus : vocab

Subtopic : Earth's Internal Heat

Subtopic : Plate Motions Causes

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.03 Distinguish between the Earth's internal and external heat engines and lis

72) A typical rate of plate motion is \_\_\_\_\_.

72) \_\_\_\_\_

- A) 3–4 meters per year
- B) 1 kilometer per year
- C) 1–18 centimeters per year
- D) 1,000 kilometers per year

### Question Details

Topic : Plate Tectonics

Subtopic : Plates and Plate Movement

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

73) Volcanic island arcs like the islands of Japan are associated with

73) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) transform boundaries
- B) divergent boundaries
- C) ocean-continent convergence
- D) ocean-ocean convergence

### Question Details

Topic : Plate Tectonics

Subtopic : Types of Plate Boundaries

Topic : Volcanoes

Subtopic : Plate Tectonics and Volcanoes

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**74)** The division of geology concerned with Earth materials, changes in the surface and interior of the Earth, and the dynamic forces that cause those changes, is

74) \_\_\_\_\_

- A) physical geology
- B) historical geology
- C) geophysics
- D) paleontology

### Question Details

Topic : Study of Geology

Subtopic : What is Geology?

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

**75)** Which is a geologic hazard?

75) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) earthquake
- B) volcano
- C) mudflows
- D) floods
- E) wave erosion at coastlines
- F) landslides
- G) all of these choices are correct

### Question Details

Topic : Study of Geology

Subtopic : Earth and the Human Population

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

76) The largest zone of Earth's interior, by thickness, is the

76) \_\_\_\_\_

- A) crust
- B) mantle
- C) outer core
- D) inner core

### Question Details

Topic : Earth's Interior

Subtopic : Internal Structure of the Earth

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.

77) Oceanic and continental crust differ in

77) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) composition
- B) density
- C) thickness
- D) all of these choices are correct

### Question Details

Topic : Earth's Interior

Topic : Plate Tectonics

Subtopic : Plates and Plate Movement

Subtopic : Internal Structure of the Earth

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.

**78)** The forces generated inside Earth that cause deformation of rock as well as vertical and horizontal movement of portions of Earth's crust are called

78) \_\_\_\_\_

- A) erosional forces
- B) gravitational forces
- C) tectonic forces
- D) all of the preceding

### Question Details

Topic : Plate Tectonics

Subtopic : Plate Motions Causes

Topic : Study of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Subtopic : Important Concepts of Geology

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

**79)** Plate tectonics is a

79) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) conjecture
- B) opinion
- C) hypothesis
- D) theory

### Question Details

Topic : Study of Geology

Section : 01.03 An Overview of Physical Geology-Important Concepts

Subtopic : The Scientific Method

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

80) Which is a type of a plate boundary?

80) \_\_\_\_\_

- A) divergent
- B) transform
- C) convergent
- D) all of these choices are correct

### Question Details

Topic : Plate Tectonics

Subtopic : Types of Plate Boundaries

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.06 Sketch and label the different types of plate boundaries.

81) Western economies rely on which of the following?

81) \_\_\_\_\_

## Physical Geology 17th Edition by Plummer CH01

- A) petroleum
- B) metals
- C) coal
- D) uranium
- E) natural gas
- F) All of these choices are correct

### Question Details

Bloom's : 1. Remember

Topic : Mineral Resources

Topic : Study of Geology

Subtopic : Earth and the Human Population

Subtopic : Supply and Demand of Minerals

Accessibility : Keyboard Navigation

Gradable : automatic

Section : 01.01 Who Needs Geology?

Learning Objective : 01.01 Know what physical geology is, and describe some of the things it is used

82) An analogy of the materials of Earth's interior is

82) \_\_\_\_\_

- A) an egg (thin shell, white, yolk)
- B) a balloon (thin stretchable shell and air)
- C) bowling ball (rigid shell and air)
- D) baseball (soft shell and compressible core)

### Question Details

Bloom's : 2. Understand

Topic : Earth's Interior

Subtopic : Internal Structure of the Earth

Section : 01.03 An Overview of Physical Geology-Important Concepts

Accessibility : Keyboard Navigation

Gradable : automatic

Learning Objective : 01.04 List the three major internal zones of the Earth.



## **Physical Geology 17th Edition by Plummer CH01**

### **Answer Key**

Test name: CH01

- 1) TRUE
- 2) FALSE
- 3) TRUE
- 4) FALSE
- 5) TRUE
- 6) TRUE
- 7) FALSE
- 8) TRUE
- 9) TRUE
- 10) TRUE
- 11) FALSE
- 12) TRUE
- 13) FALSE
- 14) TRUE
- 15) FALSE
- 16) TRUE
- 17) FALSE
- 18) TRUE
- 19) TRUE
- 20) TRUE
- 21) [A, B]
- 22) B
- 23) C
- 24) C
- 25) D
- 26) B

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- 27) B
- 28) E
- 29) C
- 30) A
- 31) B
- 32) A
- 33) B
- 34) E
- 35) C
- 36) C
- 37) E
- 38) B
- 39) B
- 40) D
- 41) C
- 42) E
- 43) A
- 44) A
- 45) D
- 46) D
- 47) C
- 48) A
- 49) A
- 50) C
- 51) B
- 52) D
- 53) C
- 54) C
- 55) E
- 56) E

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- 57) D
- 58) C
- 59) D
- 60) C
- 61) D
- 62) C
- 63) A
- 64) B
- 65) A
- 66) D
- 67) A
- 68) B
- 69) C
- 70) D
- 71) C
- 72) C
- 73) D
- 74) A
- 75) G
- 76) B
- 77) D
- 78) C
- 79) D
- 80) D
- 81) F
- 82) A