

LEAP CONNECT

Practice Test Reference Materials

Science
Grade 4

Required Manipulatives and Instructional Materials include required graphics that are to be presented to the student during the administration of LEAP Connect Science Assessment. Refer to the *Directions for Practice Test Administration (DPTA)* for detailed instructions.

Session 1

Equation 1 (Item 1)

Items 1–2 Answer Options

Incomplete Chart 1, "Chemical Energy Conversions" and pictures of a shining flashlight and a battery, a radio playing and a battery, and a television remote control and a battery (Item 3)

Item 4–10 Answer Options

Map 1, a world map (Item 11)

Items 11–15 Answer Options

Diagram 1 of a wave (Item 16)

Item 16 Answer Options

Session 2

Item 17–19 Answer Options

Incomplete Diagram 1 of a rabbit and the words "sound" and "smell" (Item 20)

Items 21–22 Answer Options

Model 1 of two waves (Item 23)

Item 23 Answer Options

Diagram 2 of birds sitting on waves (Item 24)

Items 24–27 Answer Options

Data Table 1, "Soil Erosion Results" (Item 28)

Item 28 Answer Options

Map 2, a map of the United States (Item 29)

Item 29 Answer Options

Map 3, "Map of the United States" and the words "ocean", "river", and "lake" (Item 30)

Session 1

Equation 1 (Item 1)

Person A speed – Person B speed = ?

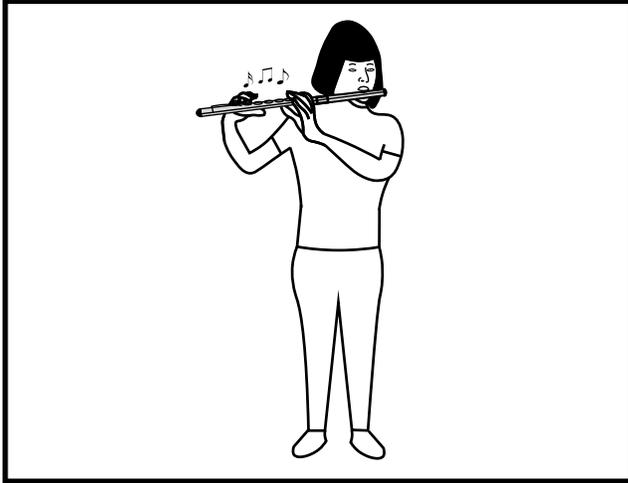
Session 1 – Item 1 Answer Options

A. 5 miles per hour faster

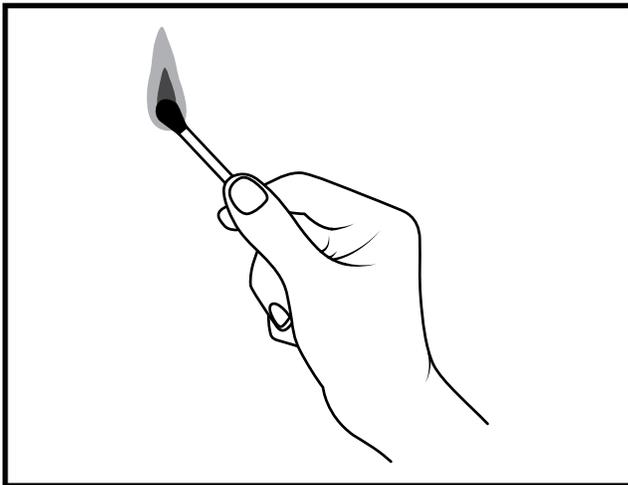
B. 12 miles per hour faster

C. 19 miles per hour faster

Session 1 – Item 2 Answer Options



A. sound

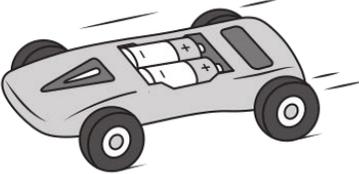


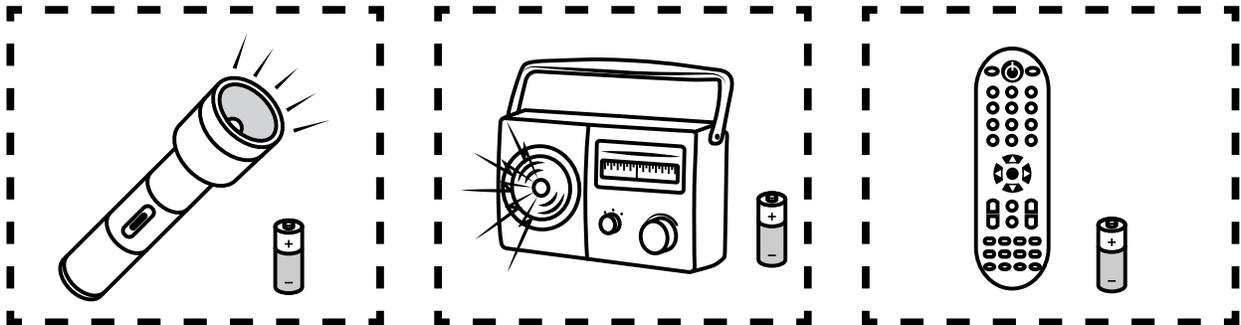
B. burning match

Incomplete Chart 1, "Chemical Energy Conversions" and pictures of a shining flashlight and a battery, a radio playing and a battery, and a television remote control and a battery (Item 3)

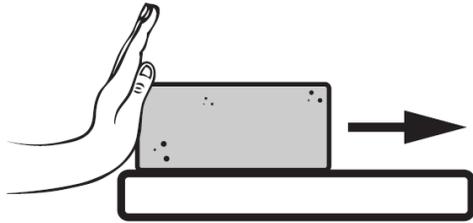
Provide student with Incomplete Chart 1 "Chemical Energy Conversions" and the pictures of a shining flashlight, a radio playing, and a television remote control. The following will need to be reproduced and cut out for student use.

Chemical Energy Conversions

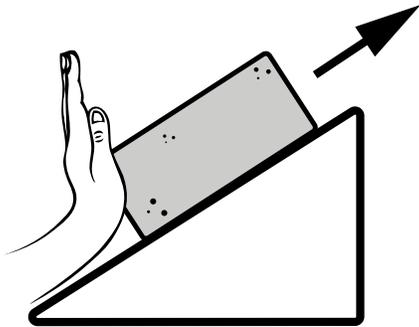
Sound	Motion	Light
		



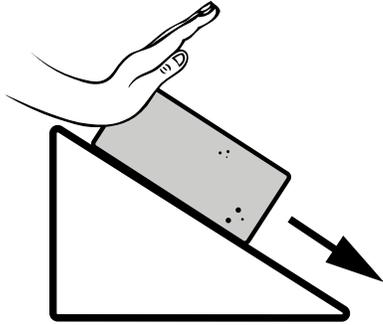
Session 1 – Item 4 Answer Options



A. when the surface is flat



B. when the surface is going up



C. when the surface is going down

Session 1 – Item 5 Answer Options

A. speeds up

B. slows down

C. stops

Session 1 – Item 6 Answer Options

A. hold onto a branch

B. swim in a pond

Session 1 – Item 7 Answer Options

A. wide wings

B. long legs

C. thin beak

Session 1 – Item 8 Answer Options

A. smell smoke from the fire and run away from it

B. feel the warm fire and run away from it

C. taste smoke from the fire and run away from it

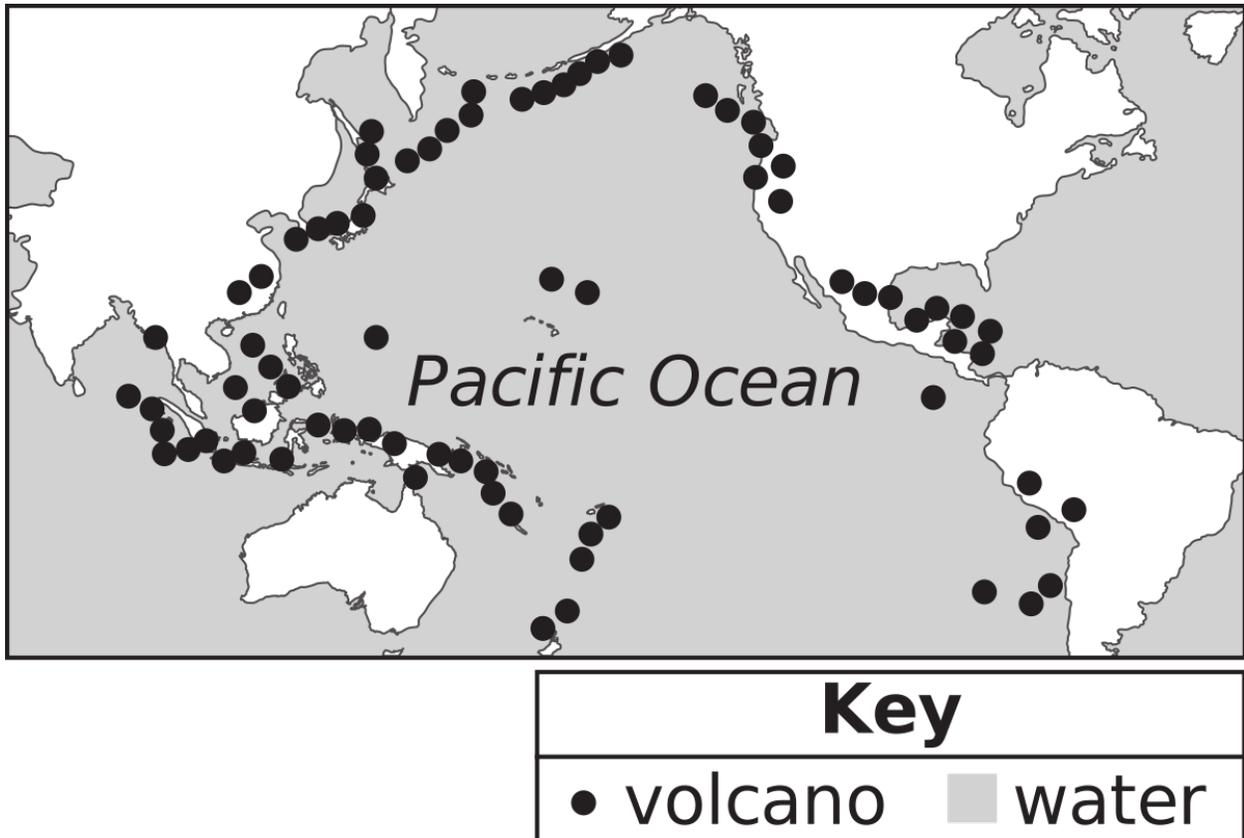
Session 1 – Item 10 Answer Options

A. Fossils of mammals were found there.

B. Fossils of birds were found there.

C. Fossils of fish were found there.

Map 1, a world map (Item 11)



Session 1 – Item 11 Answer Options

A. in the center of continents

B. in the middle of oceans

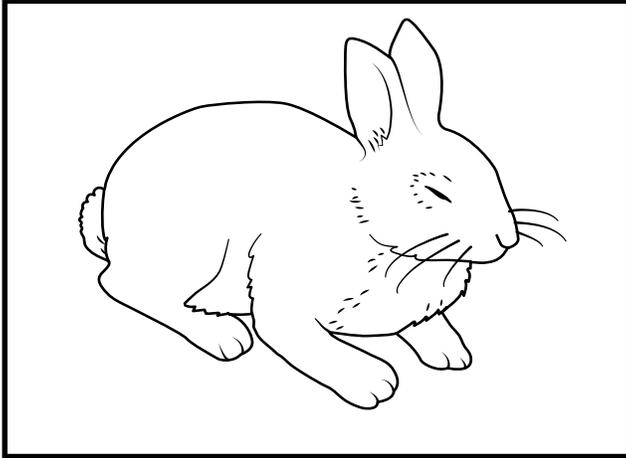
C. at the edges between continents and oceans

Session 1 – Item 12 Answer Options

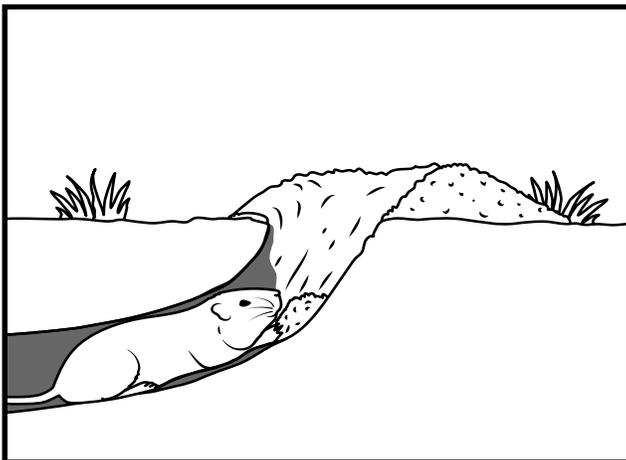
A. gentle breeze

B. heavy rainstorm

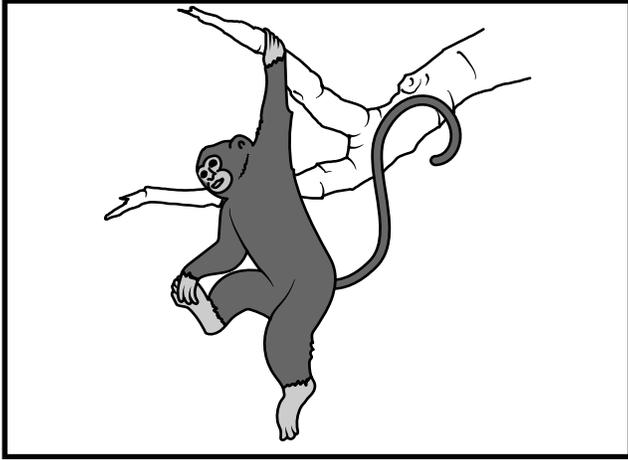
Session 1 – Item 13 Answer Options



A. taking a nap



B. digging tunnels



C. living in a tree

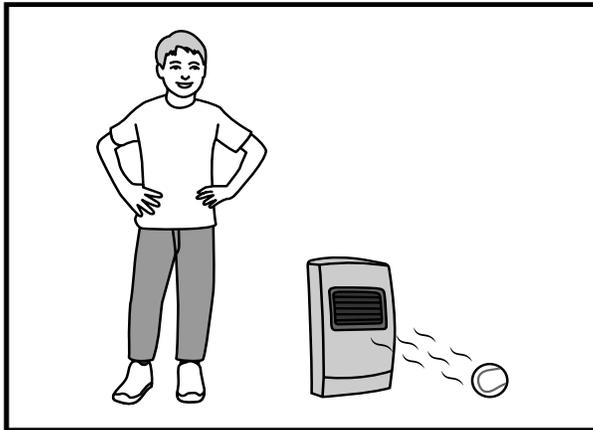
Session 1 – Item 14 Answer Options

A. play in the flood waters

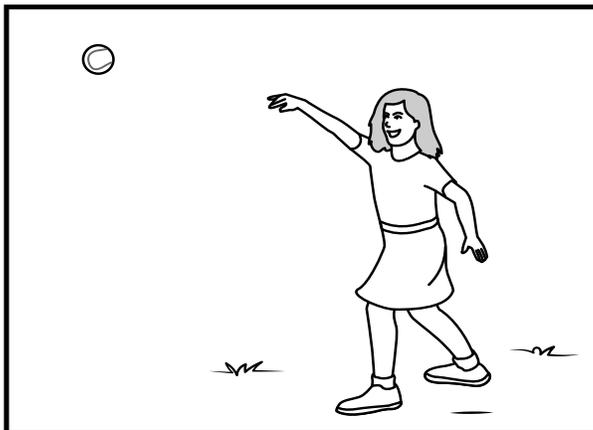
B. drive on flooded roads

C. move to higher ground

Session 1 – Item 15 Answer Options

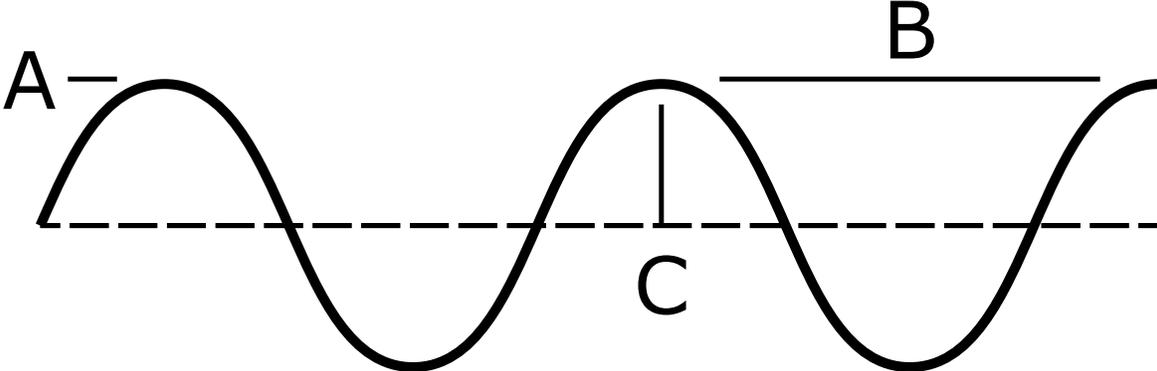


A. heating the ball



B. throwing the ball

Diagram 1 of a wave (Item 16)



Session 1 – Item 16 Answer Options

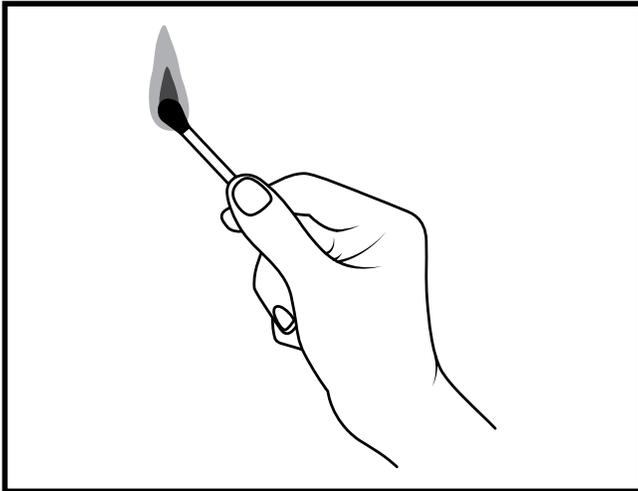
A. letter A

B. letter B

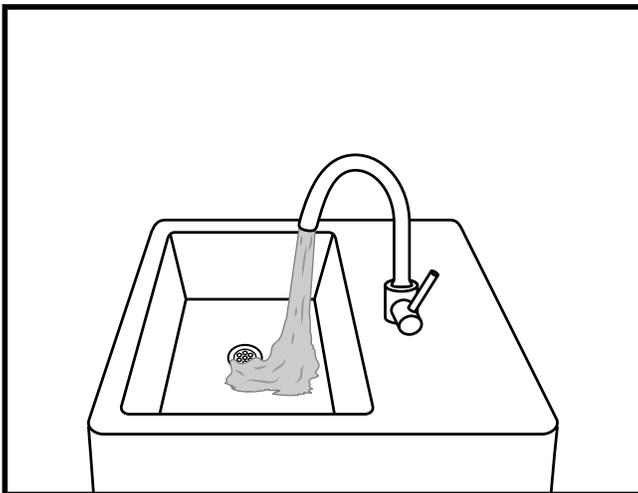
C. letter C

Session 2

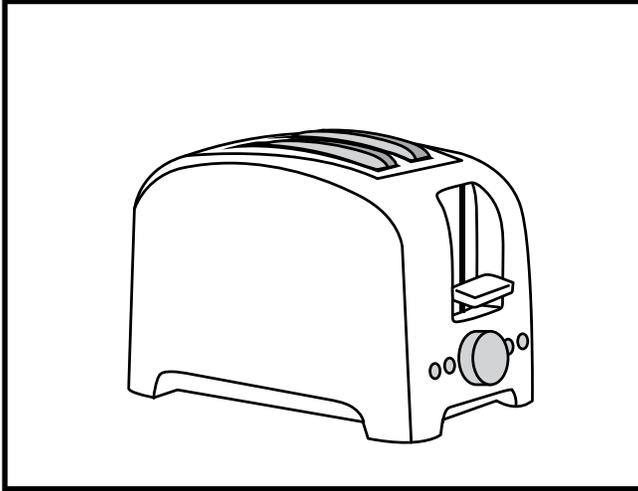
Session 2 – Item 17 Answer Options



A. burning a match



B. running water in a sink



C. turning on a toaster

Session 2 – Item 18 Answer Options

A. behind Object A

B. closer to Object A

C. away from Object A

Session 2 – Item 19 Answer Options

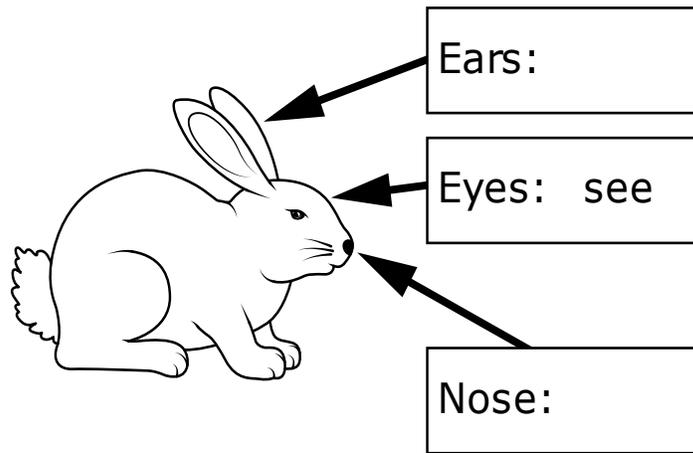
A. Car 1

B. Car 2

C. Car 3

Incomplete Diagram 1 of a rabbit and the words “sound” and “smell” (Item 20)

Provide student with Incomplete Diagram 1 of a rabbit and the words “sound” and “smell”. The following will need to be reproduced and cut out for student use.



sound

smell

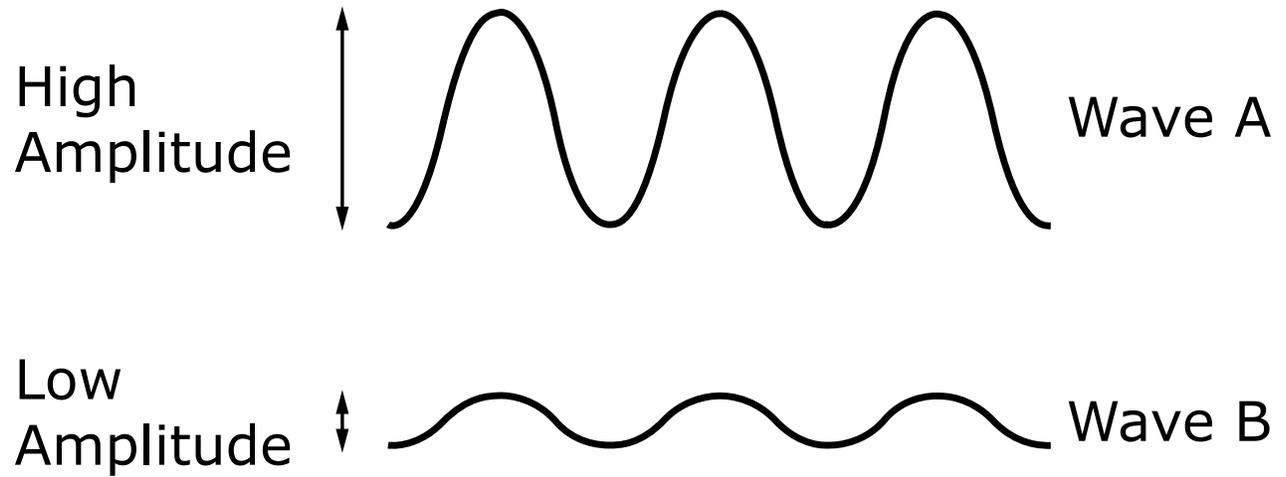
Session 2 – Item 21 Answer Options

A. gills

B. fins

C. eyes

Model 1 of two waves (Item 23)



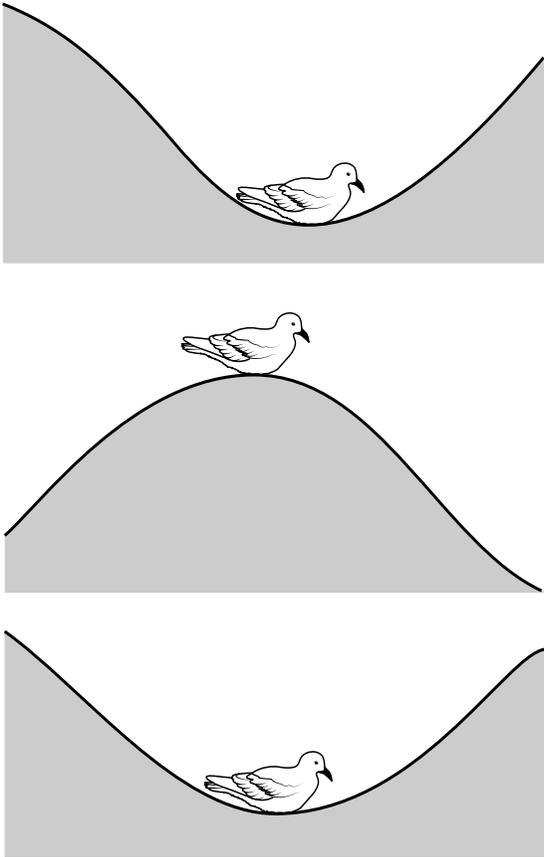
Session 2 – Item 23 Answer Options

A. loud sound

B. quiet sound

A. same sound

Diagram 2 of birds sitting on waves (Item 24)



Session 2 – Item 24 Answer Options

A. The ship moves up and down.

B. The ship does not move.

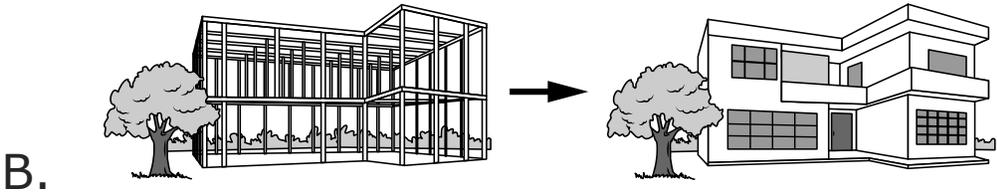
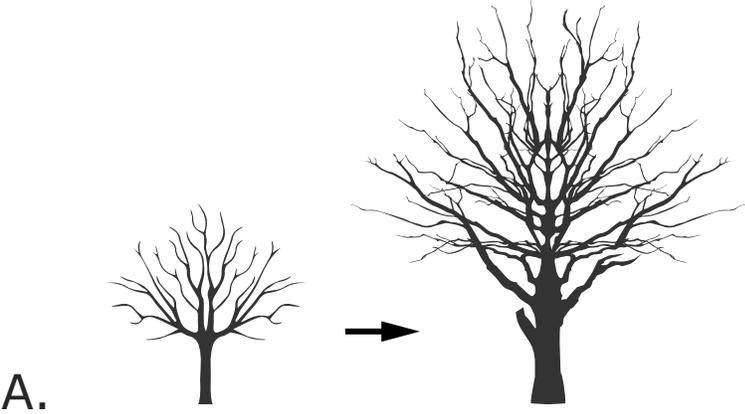
Session 2 – Item 25 Answer Options

A. earthquake

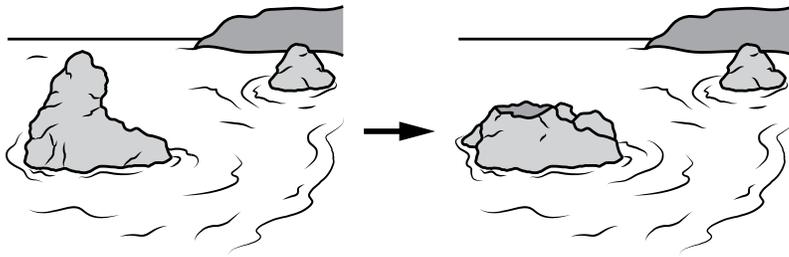
B. flood

C. hurricane

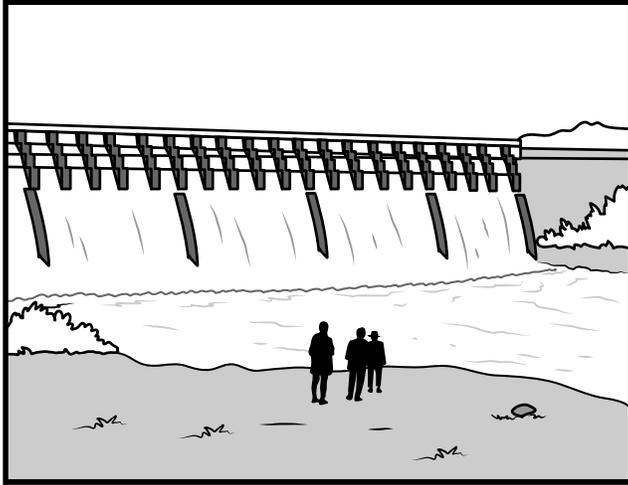
Session 2 – Item 26 Answer Options



C.



Session 2 – Item 27 Answer Options



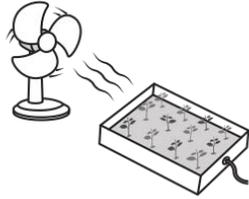
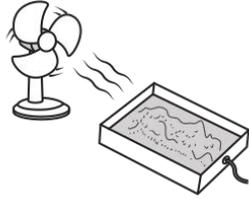
A. building a dam on the river



B. going to the beach

Data Table 1 "Soil Erosion Results" (Item 28)

Soil Erosion Results

Tray		Amount of Soil Moved by the Wind (g)
A		50
B		200

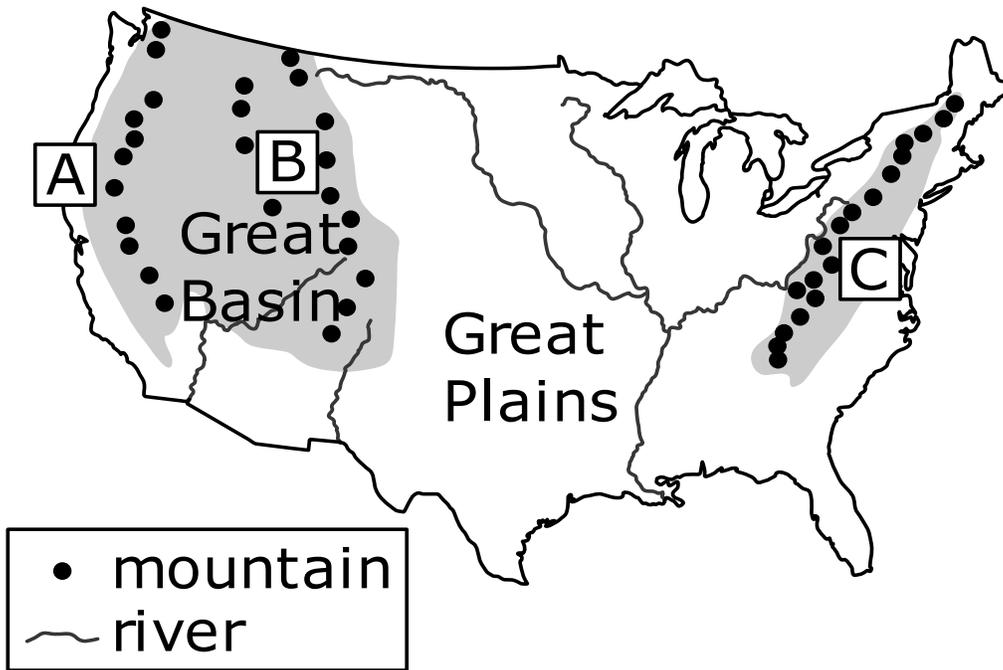
Session 2 – Item 28 Answer Options

A. Having plants does **not** affect soil erosion.

B. Having plants results in **more** soil erosion.

C. Having plants results in **less** soil erosion.

Map 2, a map of the United States (Item 29)



Session 2 – Item 29 Answer Options

A. letter A

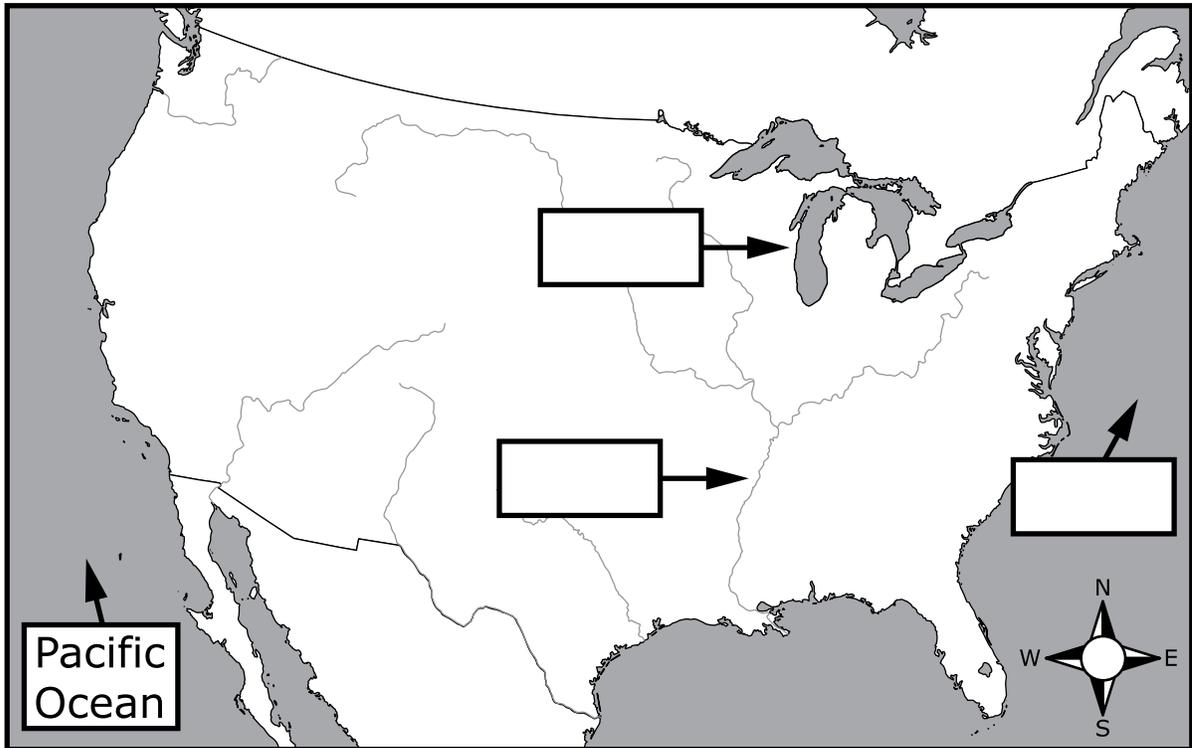
B. letter B

C. letter C

Map 3, “Map of the United States” and the words “ocean”, “river”, and “lake” (Item 30)

Provide student with Map 3, “Map of the United States” and the words “ocean”, “river”, and “lake”. The following will need to be reproduced and cut out for student use.

Map of the United States



ocean
river
lake

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