



DIRECTIONS

Read each question and choose the best answer. Then mark the space for the answer you have chosen. For some questions, you will write your answers in the spaces provided in your answer document. You may sometimes be required to draw or copy something in your answer document. Be sure to write your answers neatly. Remember to keep your writing inside the boxes. Writing outside the boxes will NOT be scored.

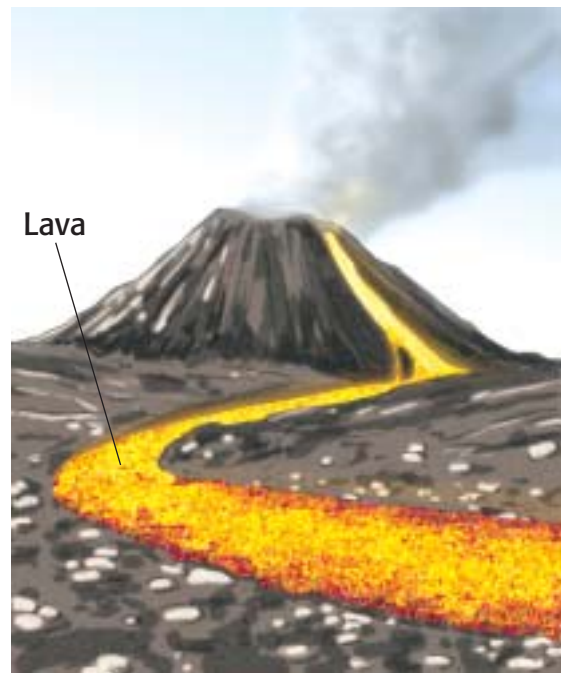
SAMPLE

Which planet is the largest?

- A Mars
- B Pluto
- C Saturn
- D Jupiter

1

When a volcano erupts, heat is transferred from Earth's interior to the surface. As the lava flows, this heat is transferred into the environment.

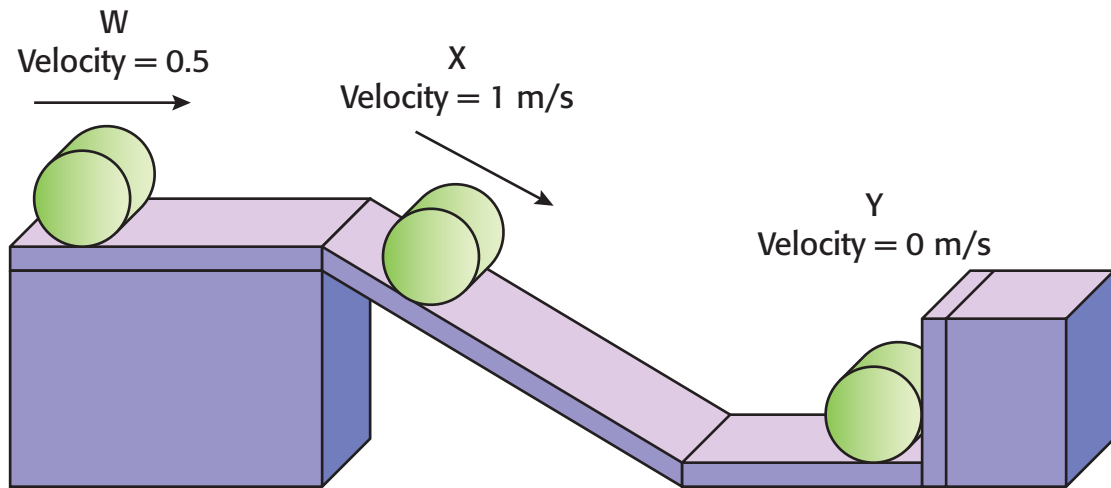


In your answer document, identify and explain 1 way heat is transferred from the flowing lava to the surrounding environment.



2

The cylinder shown is rolled from position W, down the ramp, and then comes to a stop at position Y.



Which of these *best* describes the energy changes of the cylinder as it travels from position W to position Y?

- A** The potential energy is greater at position X than at position W.
- B** The kinetic energy is greater at position Y than at position X.
- C** The potential energy decreases from position X to position Y.
- D** The kinetic energy decreases from position W to position X.