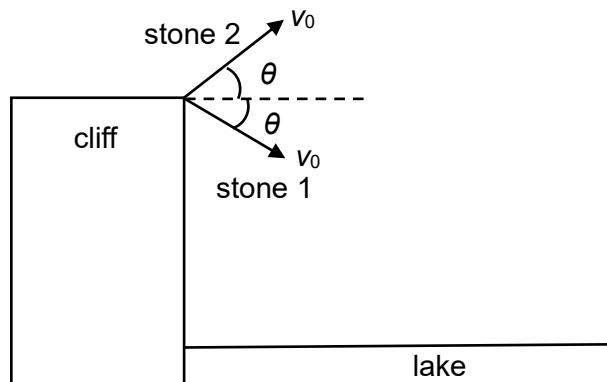


- 4 A student throws two stones from the top of a cliff overlooking a lake.



The stones have identical initial speed v_0 . Stone 1 is thrown at an angle θ below the horizontal, while stone 2 is thrown at the same angle θ above the horizontal. Air resistance is assumed to be negligible.

Which of the following statements is true?

- A Both stones strike the water with the same velocity.
- B Stone 1 strikes the water with a greater speed than stone 2.
- C Stone 2 strikes the water with a greater speed than stone 1.
- D Both stones strike the water with the same speed but at a different angle above the water surface.