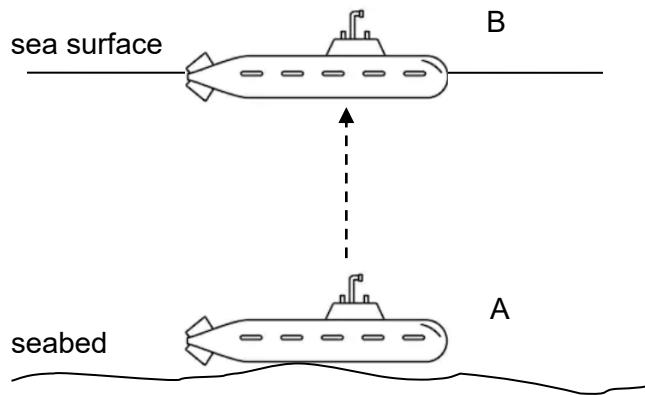


- 7 A submarine is initially at rest on the seabed at position A as shown in the diagram below. It then rises and floats on the sea surface at position B.



If the total weight of the submarine and its contents is  $W$  and the upthrust on the submarine is  $U$ , by comparing the two positions A and B, which of the following is correct?

- A  $U$  has increased and  $W$  has decreased.
- B  $U$  has decreased and  $W$  remains the same.
- C Both  $U$  and  $W$  have decreased.
- D Both  $U$  and  $W$  have increased.