

Sinking/Floating Program of Study

CYCLE
1

CDS version 1
(original)

CDS version 2
(Australian)

- 1) Press for explanation of sinking that also accounts for floating. This may require pressing Ss to more carefully observe in order to invent an explanation.
- 2) Press for explanation that accounts for differences among different types of divers regarding the circumstances that are required for sinking and floating.

If Ss are not at level of explanation for 1st reporting, help them to focus on the quality and completeness of their observations.
Lead class in using that information to invent several explanations that can be tested in the second cycle.

CYCLE
2

CDS version 1
(original)

CDS version 2
(Australian)

- 1) Monitor for "testing" explanations already generated, in order to rule some out. Monitor for a focus on explaining sinking and floating.
- 2) Press for explanation that applies to divers of any size.
- 3) Press the class to state the best explanation(s); use these ideas to ask whether they can help account for sinking/floating phenomena in other contexts.

CYCLE
3

Sinking/Floating
Objects

- 1) Test best explanations to date by having Ss sort objects according to the predictions from a particular explanation and then investigate to see whether the prediction was correct.
- 2) Press the class to determine which explanation best accounts for the observations; if none does, have them work to invent a new explanation that can account for their observations.