

Buoyancy Blocks

Setup Instructions

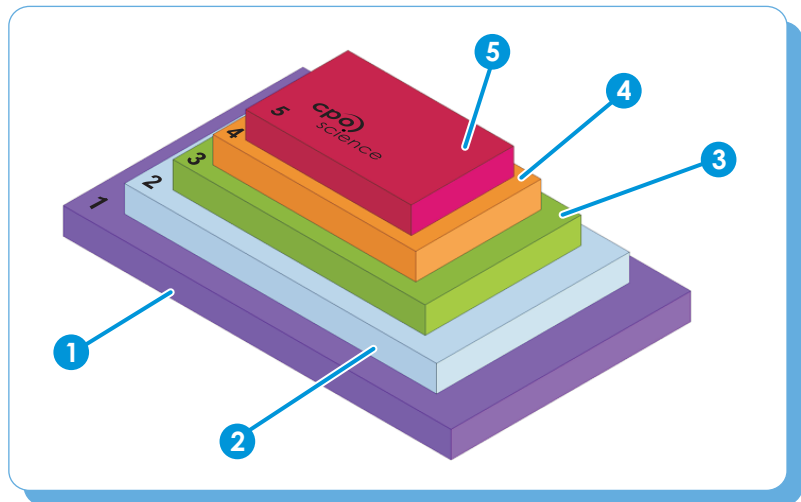
The CPO Science Buoyancy Blocks provide a clear, colorful way to explore concepts of density and buoyancy. In the context of our investigations, the blocks demonstrate how continental plates build up (and down) because they “float” on Earth’s mantle. The wooden blocks are of consistent density and are individually numbered and colored for easy identification.

Parts Checklist

The following items are required to perform the Buoyancy Blocks investigation:

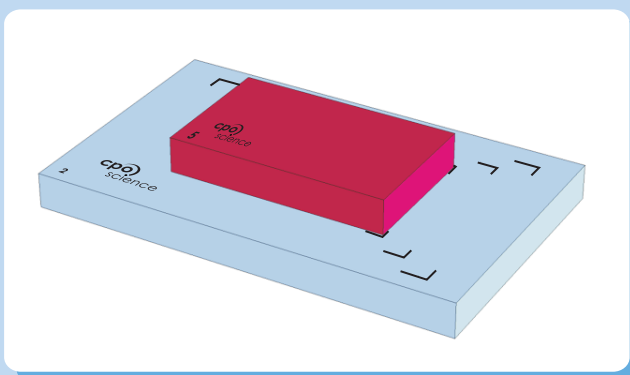
- Buoyancy Blocks (#1-5, 1 each)
- Buoyancy Block #3 (2 extra pieces)
- rubber bands
- GeoBox
- mass balance
- water

Note: There are a total of seven (7) blocks in the Buoyancy Block set.



Using the Buoyancy Blocks

When stacking the Buoyancy Blocks, use the corner marks to properly center the blocks, as shown below. This will help to keep the blocks balanced in water.



Note: To prevent blocks from slipping, wrap rubber bands around the stack of blocks.

For activities, consult your *Teacher's Guide*.

Buoyancy Blocks' Properties

The following chart lists the properties of the Buoyancy Blocks.

Block #	Color	Volume (cm ³)
1	Purple	450
2	Blue	300
3	Green	200
4	Orange	134
5	Red	80

Helpful Hints

The tips below will help protect your Buoyancy Blocks and ensure that they last a long time.

- Do not allow the Buoyancy Blocks to remain submerged in water for long periods of time.
- Remove the blocks from water promptly after the experiment is concluded.
- Make sure the blocks are dried thoroughly before storing.