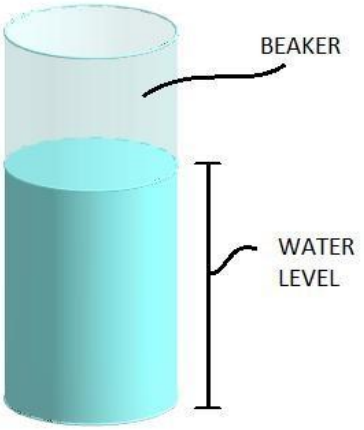
RELATION BETWEEN THE AREA OF A BEAKER AND THE LEVEL OF THE WATER IT CONTAINS

TASK 1.

Consider the area of a beaker and the level of the water it contains. What kind of proportionality do you think there is between them? Why?



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TASK 2.

Open the simulation you teacher has shared with you and explore it.
According to the simulation, were your hypotheses right?

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TASK 3.

Design a real experiment to verify what kind of proportionality connects the area of a beaker and the level of the water it contains.

We could consider many different beakers, with different .

We could use the to measure their , in order to calculate their base area.

We could fill them with the same amount of water and then we could use the to measure the .

Then we could calculate the between and .

Finally we could draw a graph with in abscissa and in ordinate.