In a Brookstone catalog [1] (see Figure 1), received by the author on 21 November 2013, there is pictured a “Rock Glass with Ice Ball Maker,” a device for making spherical ice balls to put in drinks. The claim is that this device, “Lets you make ice balls that outlast cubes and won’t water drinks down.”

1. Use mathematical modeling to defend or contradict this claim.
2. Design an experiment to test this claim.
3. Carry out the experiment and use any data in (2) to validate your model in (1).

REFERENCES