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SIMIODE Systemic Initiative for Modeling
Investigations and Opportunities with Differential Equations

STUDENT VERSION ICE MELT

Brian Winkel
Director SIMIODE
Cornwall NY USA

STATEMENT

Best Gifts
GUARANTEED

K. NEW On the ROCK Glass with Ice Ball Maker
Unique glass makes it easy to swirl ice for better aroma. Lets you make ice balls that outlast cubes and won't water drinks down.

843819 (Includes 1 Ice Ball Mold)	\$19.99
Ice Ball Mold 2-Pack 843822	\$10.99
Gift Set (2 Glasses & 4 Molds) 854465	\$39.99

Figure 1. Copy of notice from *Brookstone Holiday Gift Guide* [1] in which it is claimed that Brookstone's spherical ice ball mold "Lets you make ice balls that outlast cubes and won't water drinks down."

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

- [1] Brookstone. 2013. *Brookstone Holiday Gift Guide*. <http://www.brookstonemedia.com/eCat/#/1/>, November 2013. p. 43. Accessed 24 November 2013.