

## Teaching Through Trade Books NSTA Connection

### Additional Resources:

#### Middle School Cardboard Boat Races

[www.youtube.com/watch?v=MHyqAaFKWe8](http://www.youtube.com/watch?v=MHyqAaFKWe8)

This video shows eighth graders participating in a competition to see which of their cardboard boat designs worked.

#### STEM Design Challenge Edible Car Video

[www.teachingchannel.org/videos/engineering-design-process-stem-lesson](http://www.teachingchannel.org/videos/engineering-design-process-stem-lesson)

This video shows students designing and building cars out of edible materials to solve a problem—travel the farthest on a ramp. This could be an additional design challenge.

“Will It Sink or Will It Float?”

[http://static.nsta.org/files/sc1409\\_18.pdf](http://static.nsta.org/files/sc1409_18.pdf)

This column teaches about the idea of buoyancy with boats and could connect to this lesson by providing the science content.

#### For Teacher Background and Development:

#### Why the Maker Movement is Important to America’s Future

<http://time.com/104210/maker-faire-maker-movement/>

This is an interesting article that appeared *Time Magazine* and highlights the need for students to think through the process and make things.

#### Making Matters! How the Maker Movement Is Transforming Education

[www.weareteachers.com/blogs/post/2015/04/03/how-the-maker-movement-is-transforming-education](http://www.weareteachers.com/blogs/post/2015/04/03/how-the-maker-movement-is-transforming-education)

This link provides a list of lessons learned from engaging in the process of making or engineering design.