

VT RED CLOVER Book Award Conference - September 26, 2017
Design engineering with Meredith Wade

Resources for *WHOOSH! Lonnie Johnson's Super-Soaking Stream of Inventions*
By Chris Barton, Illustrated by Don Tate

Book discussion guide

<http://chrisbarton.info/whoosh-discussion-activity-guide.pdf>

Artist/illustrator Don Tate

<https://dontate.com/book/whoosh-lonnie-johnsons-super-soaking-stream-of-ideas/>

Meet Lonnie Johnson and see a few inventions in action

<https://www.cbsnews.com/videos/making-a-big-splash-with-the-super-soaker/>

The Design process

https://theworks.org/wp-content/uploads/2017/01/EDP_The_Works_Museum_2016_web.jpg

<https://www.teachengineering.org/k12engineering/designprocess>

What does design engineering look like in a classroom and what skills or strategies do students use to be successful?

<https://eie.org/engineering-elementary/eie-videos-engineering-moments>

<https://eie.org/engineering-elementary/resources/applying-science-knowledge-0>

Next Generation Science Standards - Engineering Design for K-2 and 3-5

<http://www.nextgenscience.org/topic-arrangement/k-2engineering-design>

<http://www.nextgenscience.org/topic-arrangement/3-5engineering-design>

10 Simple Air Pressure experiments / demonstrations - YouTube

<https://www.youtube.com/watch?v=YcrbtDQGk3s>

Fun activities with air pressure from PBS Kids Design Squad

<http://pbskids.org/designsquad/build/>

<http://pbskids.org/designsquad/build/air-cannon/>

<http://pbskids.org/designsquad/build/2-wheel-balloon-car/>

Book discussion at tables-

How would you describe Lonnie?

Was he encouraged or discouraged to follow his interests?

How did Lonnie respond to challenges?

What are the themes or BIG ideas of the book?