

HSSP Spring 2009

## How to Think Like an Engineer

### Teaching Staff

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  - Civil engineering junior
- Yes, a bit civil engineering biased...

## Goals

- Introduce you to the world of engineering
- Learn some basic engineering principles
- Appreciate the math & science classes you are currently taking
- Spark interest in a future career as an engineer
- Build “stuff”
- Have fun!

## Schedule

Class Date	Topic	Project	Goal/Activity
Mar 14 <sup>th</sup>	Intro to Engineering	Egg Drop	An interactive introduction to engineering. Don't Break the Egg!
Mar 21 <sup>st</sup>	Design Process; Frame structures	Tower	Height competition
Apr 4 <sup>th</sup>	Bridge Design; Loads	Pasta Bridge	Design and Start Building
Apr 11 <sup>th</sup>	Bridge Construction	Pasta Bridge	Build to completion. Prepare to Test
Apr 18 <sup>th</sup>	Bridge Testing	Pasta Bridge	Bridge testing.
	Intro to Siege Warfare and Final Project	Castle vs. Catapult	Create a Conceptual Level Design
Apr 25 <sup>th</sup>	Final Project Building	Castle vs. Catapult	Finish design and begin building
May 2 <sup>nd</sup>	Final Project Building	Castle vs. Catapult	Build
May 9 <sup>th</sup>	Final Project Competition Wrap-up	Castle vs. Catapult	Competition Next Steps to becoming an engineer

## Random Notes

- Class starts at 10:05, ends 11:55
- Please email us if you can't make class
- All presentations posted on class' space on ESP's website

## More Random Notes

- Ask questions at anytime – feel free to interrupt
- Let us know if there is anything you are particularly interested in – we may be able to find info or have a guest speaker

## Questions?