



Shape up your lessons with Cabri 3D

Presentation by Zach Tocchi

Acknowledgements:

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(information by them is presented with their
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What is Cabri 3D?

- Cabri 3D is a simple and comprehensive software to help students (and teachers!) understand (and teach!) 3D geometry.
- Students can open and manipulate 3D shapes.
- Modern & exciting alternative to physical geometry manipulatives.
- Cabri 3D helps bring concepts to life.

The Basics

- Basic constructions with planes, spheres, and lines.
- Construction of solids: pyramids, cylinders, etc.
- Nets: unfolding polyhedrons into nets.
- Measurements & Calculations: what we are already familiar with plus 3D calculations (volume).

Advances in Cabri 3D

- View from any angle: able to rotate objects a full 360 degrees.
- Animation tools: replay of steps.
- Intersections: discover the shape of intersections between shapes and planes.

How can Teachers Utilize Cabri 3D?

- Free 30 day trial at cabri.com (I'll show you where to go!).
- Even if students do not have accessible computers, you can project (like we're doing today!).
- Helps students visualize different geometric concepts (prove theorems, discover formulas, etc.).
- Connections to physics, geometry, and art.

Time for some activities!

- Let's play with Cabri 3D!
- We're going to do the following...
 - Construct a cube
 - Use a plane to show cross sections of a cube
 - Construct a dodecahedron
 - Show conic sections

Lessons and other materials...

- You have a packet full of some great resources that you can use however you want.
- I also have a link for you to my website where you can go download many more resources.