

SOLIDWORKS APPS FOR KIDS

OBJECTIVE

For children ages 4–14 who want to create and make things and have fun while learning the concepts of 3D design and engineering. SOLIDWORKS® Apps for Kids is an ecosystem of apps designed to inspire and educate. The apps break down the design and engineering process into bite-sized tools to create, style, design and engineer a concept and then present and share it with others.

SOLIDWORKS Apps for Kids is fast becoming a hit with both young and not-so-young kids who love how easy it is to create something fun, even if they have little to no experience with 3D design.

OVERVIEW

The collection of web-based apps is available through the SOLIDWORKS Apps for Kids website where kids can access all of the apps, share their creations and also learn to use each app through the video gallery.

To decide what apps to create, SOLIDWORKS looked at its current portfolio and how its customers are creating products today. Although each of SOLIDWORKS' customers is different, many follow a similar core workflow to take an idea from concept through to manufacture.

With SOLIDWORKS Apps for Kids, SOLIDWORKS took this workflow, simplified it and then used it as a foundation on which each app is created. SOLIDWORKS chose four steps of the workflow to start with: ideation, creation, enhancement, and production.

Once a child is signed in to SOLIDWORKS Apps for Kids, they can see 1000's of creations that other kids have made and shared. Kids can not only invent their own creations, but they can also "Riff" any of the public models to create their very own version.

- **Capture It:** Children can capture fun and creative ideas by drawing, taking photos or making collages from images and text.
- **Shape It:** Children can create anything they imagine by pushing, pulling or adding material.
- **Style It:** Children can style their Shape It creations with color, paint, stickers and backgrounds.
- **Mech It:** Create fun mechanisms to make things move or create amazing spiral artwork.
- **Print It:** Children can print their Shape It and Style It creations (Mech It coming soon) using a 3D printer or print in one of the fun paper-based project workflows.

- **Show It (coming soon):** Children will be able to show off their 3D creations using this fun, interactive 3D presentation app.
- **Gallery:** Any creation made with one of the Creation apps (Shape It, Style It and Mech It) can be shared to the gallery to show off to other Apps for Kids players.
- **Riff:** Any creation in the gallery can be riffed. A riff is where a child copies an existing design, makes changes to it and then shares it back to the gallery. All riffs are linked back to the original creation so that the creator always gets the design credit they deserve.

BENEFITS

- With SOLIDWORKS Apps for Kids, the goal was to enable SOLIDWORKS customers and other designers and engineers who have children to engage and create a bridge to share their love of design and engineering with their kids and the wider young creator audience.
- Fun for any age. Although SOLIDWORKS Apps for Kids is designed for children aged 4–14, it has proved fun and exciting for kids of all ages.
- There are many aspects of SOLIDWORKS Apps for Kids that have been purposely crafted to ensure that children instinctively learn concepts of design and making through play.
- Teachers can use the apps to teach these design concepts in a fun and interesting way. Teachers of any subject can also take advantage of the ease of use and fun of creation that SOLIDWORKS Apps for Kids delivers to help add a new take on current subjects through craft and creation.
- Free access to multiple fun-packed apps in one easy to access place makes SOLIDWORKS Apps for Kids the go-to place for kids to create whatever they can imagine.
- Being web-based, access is through a web browser so there is no installation, no waiting—just pure creative fun.
- All apps support mouse, keyboard and touch interactions so that children can have fun with SOLIDWORKS Apps for Kids on any device they like.

- Children’s privacy and online safety is a key priority for SOLIDWORKS. With heightened focus, our goal is to deliver a service that parents can feel at ease knowing that their children are creating in a safe environment. A growing partner program means that innovations and new software and hardware solutions are guaranteed to be simple to access, with the added ease of use and simplicity that SOLIDWORKS Apps for Kids ensures.

CAPABILITIES

All of the apps work on one fun-packed platform. Apps are designed to complement each other and allow for a creation to progress from wild idea to wonderful creation.

Sign up

- Quick and easy sign up to get instant access.
- Kid-safe sign up to confirm parental approval for kids under 13 years old.

Capture It

- Create collages of pictures by uploading or using a smart phone camera.
- With the infinite canvas, there is no limit to what can be captured or drawn.
- Tell stories by drawing pictures and adding text to collages.
- Save images as stickers to use later in the Style It app.

Shape It

- Jump start the design with any of the six default shapes.
- Create 3D models by adding blobs, push and pulling, bridging and more.
- Mirror or clone models to speed up any design task.
- Hide and show bodies to make projects easier to manage.
- Add other 3D models to a scene.
- Share 3D models with other SOLIDWORKS Apps for Kids players.
- Share other players’ creations and add their own flair.

Style It

- Paint directly on the 3D model.
- Add colors to 3D models and make creations pop.
- Add stickers to any creation.
- Resize, color and position stickers to make creations unique.
- Add different backgrounds to creations like space, ocean or desert.
- Share 3D models with other SOLIDWORKS Apps for Kids players.
- Share other players’ creations and add their own flair.

Mech It

- Create 2D mechanisms with links, wheels, tracks and more.
- Make mechanisms move with motors.
- Add markers to see how mechanisms really travel.
- Create amazing spiral artwork with colored markers.
- Playback mechanisms that will astound other players.
- Share mechanisms with other SOLIDWORKS Apps for Kids players.
- Share other players’ creations and add their own flair.

Print It

- Print creations to show friends and family.
- Print coloring pages with color by number.
- Create 3D cube prints with paper and make the creation 3D with just paper and a printer.
- Easily prepare and send creations directly to a 3D printer over the web to a Sindoh 3D printer—the easiest way ever to prepare and send creations to a 3D printer.
- Save an STL and print on any 3D printer.

User Profile

- Manage login information.
- Change profile avatars.
- See statistics for Likes, Riffs and Staff Picks.

Gallery

- Watch how-to videos and learn more about the different apps.
- View, spin and play shared gallery creations.
- Filter gallery projects based on the Creation app used.
- Like and Riff any of the shared creations in the gallery.
- Submit feedback and tell SOLIDWORKS about the SOLIDWORKS Apps for Kids experience.
- Help keep content appropriate by flagging content for review.
- Up-to-date status tracker to keep kids notified about service availability.

Riff

- Copy an existing shared gallery creation and make changes to it.
- Share new versions to the gallery.

All apps are available to use at www.swappsforkids.com and can be accessed on any device with a supported web browser.

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