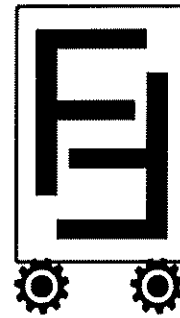


FIX FORWARD LESSON PLAN



Name: Build Fix It Cart Drawers

Grade(s): 1-4

Lesson Focus and Goals:

With adult help, students will build drawers to go in the "Fix It Cart." Students will use these drawers to access supplies in the Fix It Cart.

Materials Needed:

- Fix It Cart Building Plans
- Pre-cut wood for drawers
- Pre-made drawer jig and clamps
- Screws, screwdrivers, sandpaper

Learning Objectives:

Students will use screws, screwdrivers, and a jig to build Fix It Cart drawers. Students will sand drawers and slide drawers into Fix It Cart.

Structure / Activity:

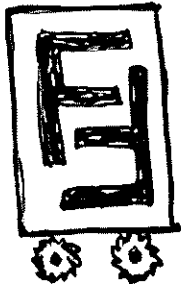
Teacher/Leader Prep: Follow Fix It Cart Building Plans and build a Fix It Cart outside of school. Pre-cut wood for drawers. Pre-drill holes for drawers. Build a jig to hold drawers in place during assembly.

Build Day: Bring cart and drawer materials to school. Show children the building plans and cart. The cart is not totally finished---it needs drawers! Today, students get to build the drawers to go inside of the cart. Lead discussion: what tools do you think we might use today? How can we make all of the drawers the exact same size?

Build one drawer in front of kids. As you build, teach them how to use the jig, clamps, screws, and screwdriver. Break into small groups and take turns assembling each drawer. Sand the edges of each drawer at the end.

Assessment:

Observe the children as they work to gain a sense of their comfort level with tools and building. By the end of this lesson, each child should be able to screw in at least one screw and sand rough edges of wood.



Fix It

Name: _____

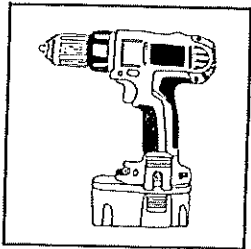
I made a Fix It Cart!

The cart is made of _____.

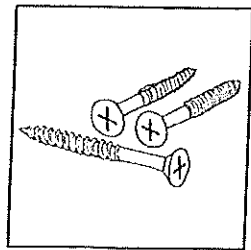
We used a _____, _____,

a _____ and _____

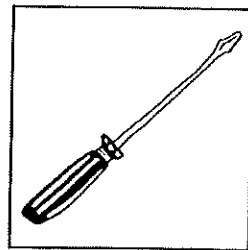
_____ to build the cart.



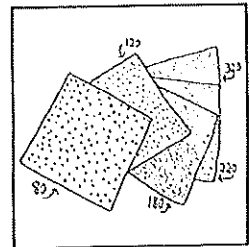
drill



screws



screwdriver

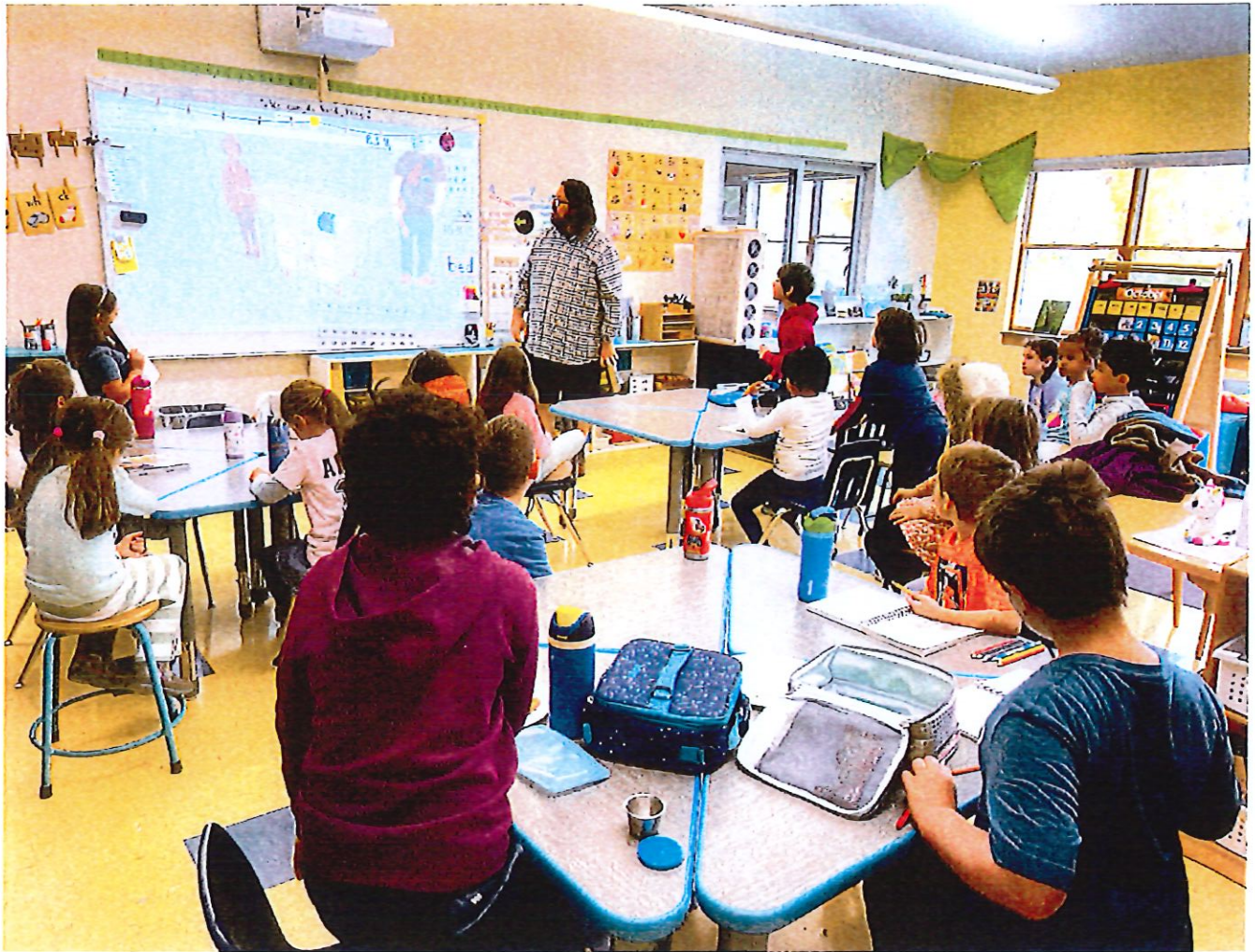


sandpaper



wood

Fix It Cart in CAD Drawings



Getting set up with the jig



Sanding!



Fitting the drawers!

