



ACTIVITY IDEAS



CARPENTRY & GENERAL BUILDING

SPEED SCREW-OFF – SEE WHO CAN DRIVE IN SCREWS THE FASTEST WITH AN IMPACT DRIVER.

LEVEL IT CHALLENGE – USE A LASER LEVEL OR BUBBLE LEVEL TO GET A SHELF PERFECTLY SQUARE.

FINISH VS. ROUGH – SIDE-BY-SIDE BOARDS WHERE STUDENTS TRY SANDING/STAINING ONE TO SEE THE DIFFERENCE.

VIRTUAL TOOL TOUR – TABLETS WITH VIDEOS OF CNC MACHINES, 3D HOUSE PRINTING, AND MODERN JOBSITE TECH.

ELECTRICAL & TECH TRADES

CIRCUIT BUILDER – SNAP CIRCUITS OR BREADBOARD KITS THAT LIGHT UP WHEN WIRED CORRECTLY.

DRONE DEMONSTRATION – SHOW HOW DRONES ARE USED FOR SITE INSPECTIONS AND SURVEYING.

SMART HOME SETUP – INSTALL A SMART BULB, PLUG, OR CAMERA INTO A DEMO WALL.

VIRTUAL REALITY WIRING SIM – HEADSET EXPERIENCE SHOWING HOW ELECTRICIANS PLAN WIRING IN A MODEL HOME.

PLUMBING, HVAC & MECHANICAL

PIPE PUZZLE RACE – PVC PIPES AND FITTINGS LAID OUT, STUDENTS ASSEMBLE A SHAPE FROM A DIAGRAM.

THERMAL CAMERA HIDE & SEEK – HIDE HOT/COLD ITEMS AND LET STUDENTS FIND THEM WITH AN IR CAMERA.

DUCTWORK AIRFLOW TEST – BLOWERS WITH SMOKE PENCILS SO KIDS CAN SEE HOW AIRFLOW MOVES.

LEAK DETECTIVE – MOCK SINK WITH A SLOW LEAK THEY DIAGNOSE AND FIX WITH BASIC TOOLS.



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MASONRY, TILE & LANDSCAPING

MINI BRICK WALL BUILD – SMALL TROWELS AND MINI-BRICKS FOR A QUICK MASONRY TRY-IT.

TILE PATTERN LAYOUT – DESIGN CHALLENGE TO LAY MOSAIC TILES INTO CREATIVE PATTERNS.

HARDSCAPE PUZZLE – PAVER STONES THAT FIT TOGETHER INTO A PATTERN, TIMED CHALLENGE.

LANDSCAPE DESIGN STATION – USE PLANT CARDS AND A SANDBOX TO “DESIGN” A YARD PLAN.

ENGINEERING, ESTIMATING & PROJECT MANAGEMENT

BLUEPRINT ESCAPE ROOM – FOLLOW DRAWINGS TO UNLOCK A BOX OR SOLVE A PUZZLE.

BUDGET BUILDER – GIVEN FAKE MONEY AND MATERIAL OPTIONS, STUDENTS PLAN THE MOST COST-EFFECTIVE PROJECT.

SCHEDULING JENGA – EACH JENGA BLOCK REPRESENTS A PROJECT TASK; BUILD A STABLE “SCHEDULE TOWER.”

SAFETY DETECTIVE – SPOT THE SAFETY VIOLATIONS IN A STAGED PHOTO OR MINI MOCK-UP.

FUN & ENGAGEMENT

“GUESS THE TOOL” MYSTERY BOX – PUT YOUR HAND IN A BOX AND IDENTIFY THE TOOL BY FEEL.

SELFIE WITH THE TRADES – HARD HATS, SAFETY VESTS, AND GIANT TOOLS FOR PHOTO OPS.

CAREER PATH WALL – BOARDS WITH REAL STORIES/PHOTOS OF YOUNG PEOPLE WHO CHOSE TRADES + HOW THEY GOT THERE.

PRIZE BOARD – EVERY COMPLETED STATION EARNS A TICKET; TICKETS ARE USED IN RAFFLES FOR TOOL SETS.