

Welcome to the GRIT Camp Host/Mentor Deck

A bite sized approach to “hosting” a GRIT Camp



Full details can be found in our written guide. Questions? Contact us at Leilani Orr <leilani@thegritfoundation.com>

GRIT CAMP ROLES

HOST

The individual or company organizing and supporting the GRIT Camp event.

MENTOR

A tradesperson guiding Students through the hands-on modules.

STUDENT

A youth participant exploring the trades through hands-on learning.

HOST ASSISTANT/VOLUNTEER

An individual supporting the Host with event-day logistics and general assistance.



HOST Requirements

- Read the GRIT Camp Guide.
- Source all materials/tools needed.
- Recruit Mentors (skilled tradespeople).
Mentor/Student ratio is 1:2, no exceptions
- Recruit students-max 15 students per camp.
(share GRIT flyer and registration form)
- Share GRIT Camp Guide and resources to Mentors.
- Follow-up host/mentor calls with GRIT.
- Assign GRIT Camp tasks to volunteers as needed.



MENTOR Requirements

- Read the GRIT Camp Guide (Reading through Modules/Mentor sections is required to have a successful GRIT Camp event).
- A background check through GRIT (via Checkr) is required for Mentors upon GRIT Camp registration.
- Mentors please bring your own basic PPE.
- Host may request Mentors to bring a drill, meter, torch set or other tools.
- Attend any webinars/courses available through GRIT (coming soon).
- Complete the SkillCat Mentor Video Course



Volunteer/Host Assistant Requirements

- Read the GRIT Camp Guide. (Volunteer & Host Assistant sections)
- Sign up via GRIT registration form.
- Communicate w/ host on what help they need from you.
- Be prepared and timely to greet students/mentors as they arrive.
- Take instax-mini polaroids of students in action throughout the day. (5x per student)
- Assist w/ planning, serving, cleaning up.

**Background checks are not required for volunteers-only required for Mentors guiding students through modules*



GRIT CAMP SPACES

→ Check-In Area

- Designate a table and volunteer to welcome students/mentors.
- GRIT Camp signage.
- Hand out safety badges upon entry.
- Have fun conversation starter pieces out on table for early birds to grow curious. (Drinking bird, tungsten cubes, tools)
- Grab n go drinks and snacks.



GRIT CAMP SPACES

→ Group Area

- Tables & Seating for all students to use for Safety Module, Lunch Module, Building Circuits and Customization Module.
- Assign a volunteer to switch up and clear space between modules and laying out lunch.
- Extra seating for volunteers/mentors on side for lunch.



GRIT CAMP SPACES

→ “Stations”

A workspace where one mentor works alongside two students as they build their project throughout the day.

One station = 1 Mentor & 2 Students

Each Station Should Include:

- Torch rig securely fastened to table legs
- Bucket of water
- 4 rags
- Fire blanket
- 4 cored bricks

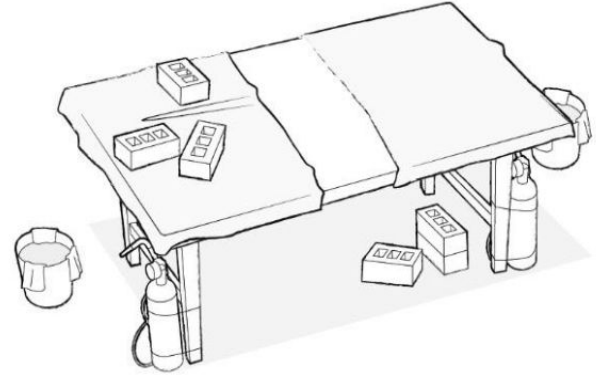
Example Setup: 10 Students = 5 Stations



GRIT CAMP SPACES

→ “Stations” (Example #2)

- The more impact drills and torch rigs you have the better.
- Encourage Mentors to bring their own.



GRIT CAMP SPACES

→ “Staging Areas”

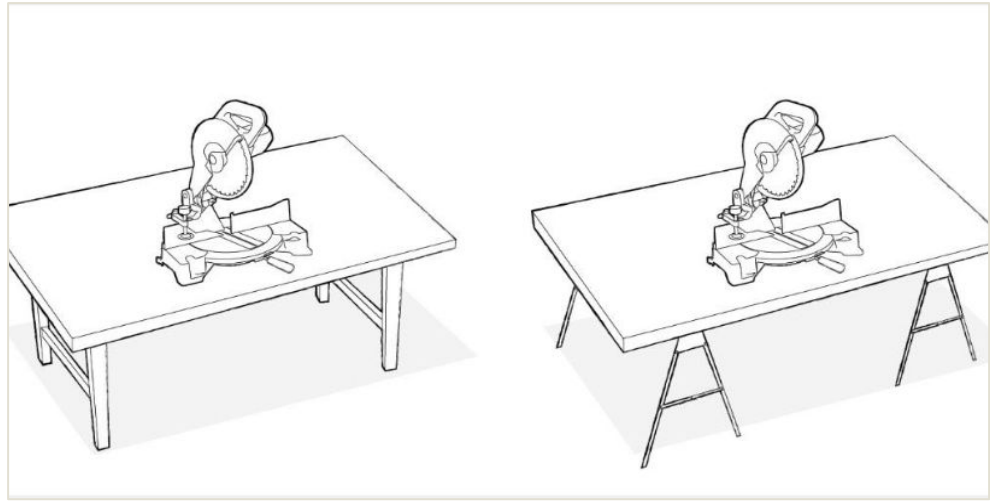
Shared spaces within camp that hold larger tools/materials for mentors and students to use as needed.

The area(s) will include:

- Table saws or miter saws (shared by all Students, supervised by Mentors)
- Larger pieces of lumber, copper, or PVC
- Extra hand tools and supplies

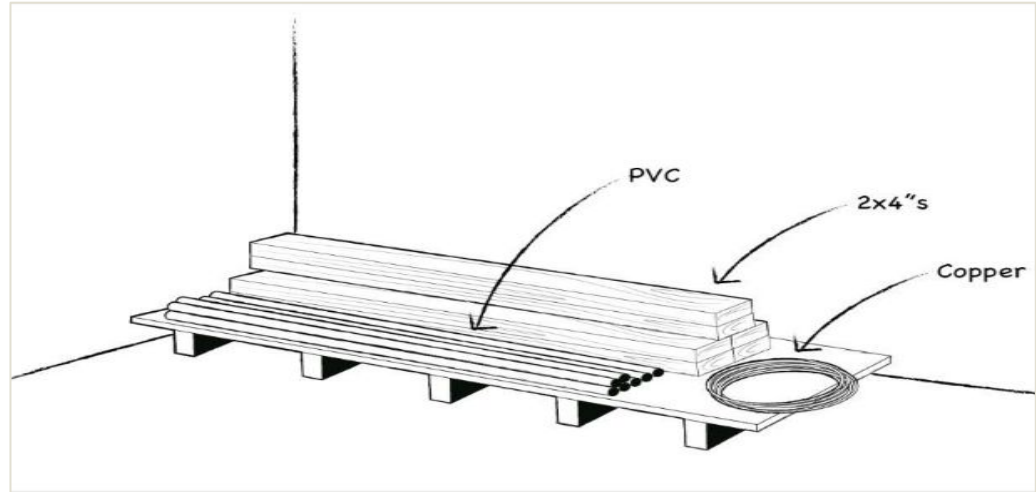
Students and Mentors will move between their “Stations” and the “Staging Area(s)” as needed during each module.

****2 or more table saws required for GRIT Camp***



GRIT CAMP SPACES

→ “Staging Areas”(Example #2)



GRIT CAMP SPACES

→ Indoor/Outdoor Coverage & Restrooms

- If GRIT Camp is held outdoors have plans for providing protection from sun, wind and rain.
- If portions of GRIT Camp are held inside a warehouse or lab building, make sure ventilation is safe for using torches.
- Have restrooms available and close by with visible signage.
- Never allow mentors and students in the same restroom together.



Mentor & Student Engagement

- Positive engagement w/ students is our top priority at GRIT.
- Mistakes are expected. Be encouraging. This is about discovery.
- Guide students by asking questions using the “Socratic Method”.
- Tell students about yourself and your work.
- Ask what they like to do in their free time.
- Always speak and behave in appropriate manners with students.



CHALLENGE INTRO

- **Create an intro to camp w/ wonder and “what if’s”**
- Host or Mentor intros the GRIT day to the students.
 - Ask “What would our world be like without the skilled trades-no power, plumbing, buildings, etc?”
 - Trades Skills are becoming a “lost art”, but it can be “theirs” (the students) to discover.
 - Pair up mentors to their students & head into the Safety Module space.



GRIT CAMP MODULES

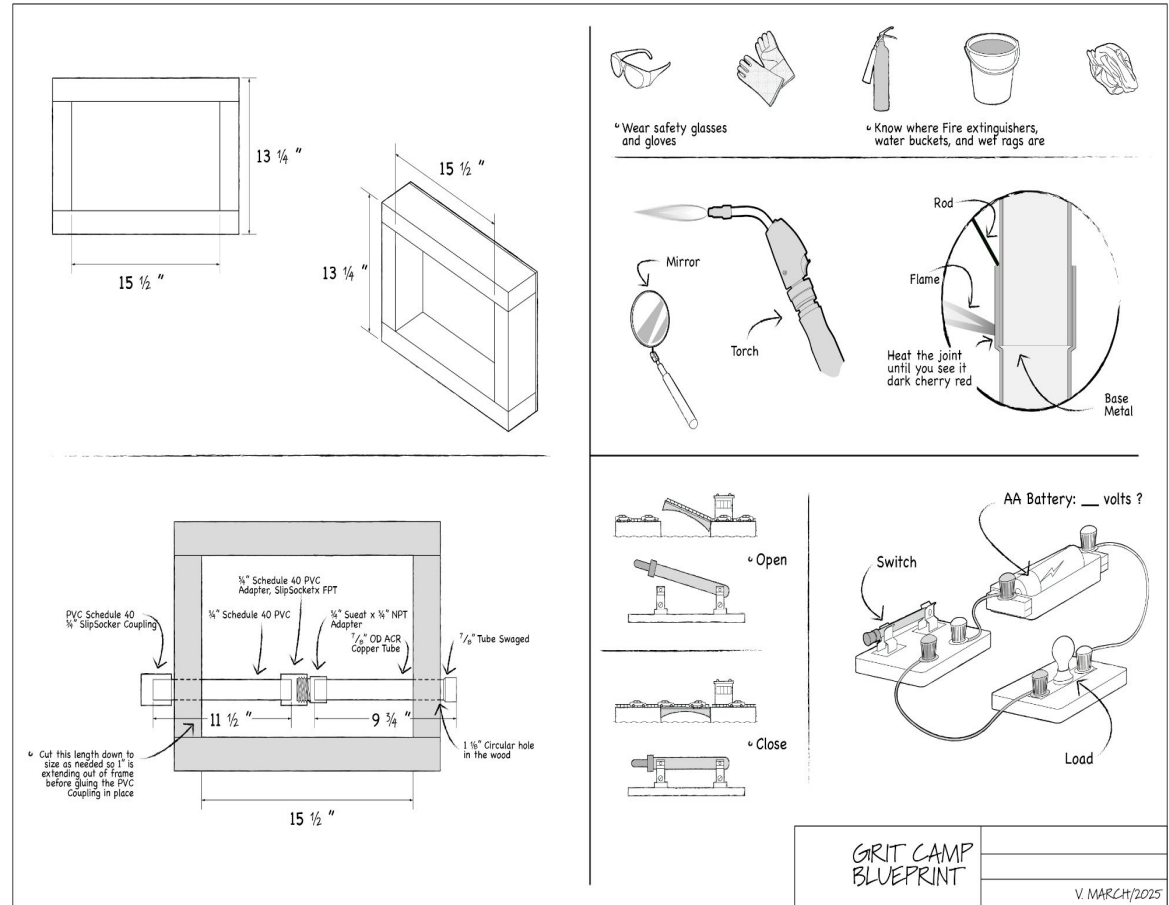
→ 1. Safety

- Assign a mentor/host to present the Safety Module to cover basics. Make it interactive.
- Let's keep all our fingers!
- Unplug table saws when not in use.
- Mentors stay with your students ESPECIALLY during table saw and torch use.
- Mentors be an example and bring your own PPE.
- Remind students to wear PPE when needed.
- Guide students. Step in when necessary.



BLUEPRINT

- Mentors & Students study together.
- Ask questions.
- Notice details and multiple measurements.
- Mark on blueprint w/ pencil throughout day to take notes.
- Every student receives a 11x17" blueprint copy from GRIT.



GRIT CAMP MODULES

→ 2. Carpentry

- Study the blueprint together and pay attention to details and measurements.
- Discuss basic fractions.
- Mark lines on wood- what side do you cut on?
- Is a 2x4 actually 2x4...Why Not?
- Use wood clamps when cutting 2x4's w/ saw.
- Hold one hand behind back when cutting.
- Unplug saw when done.



GRIT CAMP MODULES

→ Carpentry (Part II)

- Use impact drills w/ t-25 bits.
- If some students are ahead give them sandpaper to smooth out frame edges.
- Apply pre-cut luan/pegboard backing to frame.
- Mentors must do the 2 different boring size holes detailed on blueprint-too much torque for students.
- Forstner bits are highly recommended for boring holes in frame.



GRIT CAMP MODULES

→ 3a. PVC & COPPER

- Discover how to use different pipes and fittings.
- Explain the use of couplings and caps.
- Compare PVC to Copper-inside and out.
- Use PVC cutter, copper cutting tool and deburrer.
- Allow students to connect w/ glue and be mindful glue will be messy



GRIT CAMP MODULES

→ 3b. Brazing

- Make sure torch rigs are fastened properly as referenced in guide
- Make sure hair is tied back torch safety and heat discussed
- Show students how to light a torch & let them do it as well
- Discuss what happens when the solder and copper meet
- Practice on scrap piece first



GRIT CAMP MODULES

→ 3c. Connecting the tubing & Aluminum Repair

- Intro adjustable wrenches and pliers.
- Guide how to apply teflon tape & glue and let students connect tubing.
- Show the different torch tip needed for aluminum.
- Share helpful tips for aluminum repair.
- Have 3-5 aluminum cans per student for discovery (this is often a “fun fail”).



GRIT CAMP MODULES

→ 4. Lunch (with lunch lessons)

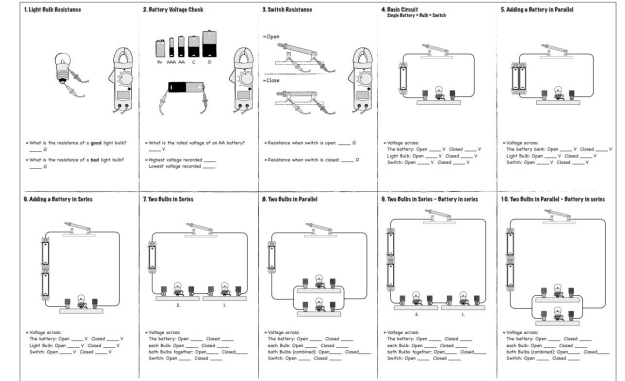
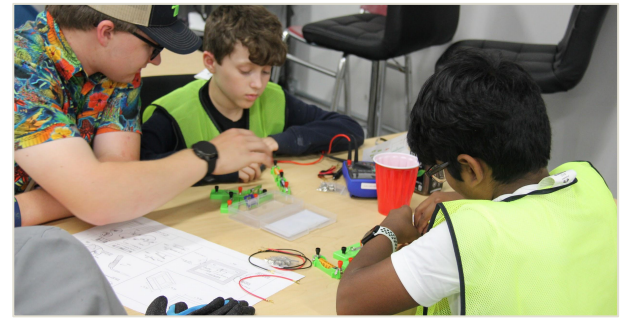
- Read lunch lessons module in guide and watch Ty's lunch presentation. (when available)
- Use thermal imaging camera to discuss heat and temperatures of food.
- Experiment with the air canons/cups.
- Have fun w/ Bernoulli bags.



GRIT CAMP MODULES

→ 5a. Basic Electrical

- Study blueprint and the basic circuit drawings w/ students.
- GRIT provides one electrical circuit kit per student.
- Have 3 or more digital multimeters available for students to test batteries and bulbs.
- Provide multiple dead bulbs & batteries for discovery. (A couple of plates or cups of bulbs and batteries set out on the group table)



GRIT CAMP MODULES

→ 5b. Basic Electrical

- Use meter to identify different voltage on good and bad batteries.
- Use meter ohms to find good and bad bulbs.
- Follow GRIT Blueprint for discovery on using voltage at different points.
- Mentors, ask and discuss w/ students about other wiring scenarios and applications.



GRIT CAMP MODULES

→ 6. Disassembly

- Nothing's cooler than taking stuff apart.
- Have 2 or more blower wheels or other equipment that can be disassembled.
- Allow students to take apart components.
- Mentors ask questions, but don't give direct answers.
- Always wear safety gloves during this module.



GRIT CAMP MODULES

→ 7. Final Customization

- Have hot glue guns and decorative items for students to apply to final frame.
- Chomp saws and cardboard sheets are awesome to have set up for customization.
- Designate a volunteer to capture 5+ Instax shots of each student and give out at end.
- Let this be fun & creative for students.
(Mentors may take a breather at this final module)
- When camp is ended have students, mentors, & host take a group picture before departure.



GRIT CAMP Admin Support

- Background checks
- Sign-ups / Waivers
- Flyers for recruiting students
- School absence form
- GRIT Camp Guide
- Blueprint for GRIT Camp
- GRIT Camp Video Courses (coming soon)
- Pre-camp mentor meetings w/ Ty Branaman
- Safety Badges for participants who register w/ GRIT



GRIT CAMP PPE

→ Mentors

- Bring your own PPE (vest, glasses, gloves, ear protection)
- Dress as if going to work in the field
- Model being an example for students

→ Students *(provided by GRIT)*

- Safety glasses
- Gloves
- Tool apron
- High vis vest
- Ear plugs

Tools:

- Blueprint (11x17")
- pencil/marker
- 6-in-1 screwdriver
- Tape measure



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Thanks to our supporters and hosts!

"What we learn to do, we learn by doing."

-Aristotle





Thank You for Supporting GRIT Foundation

For full details on hosting or mentoring, please see the [Grit Camp Guide](#)

 *Questions or support?*

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Together, we're making GRIT Camps a meaningful and impactful experience for every student.