

Ladder Safety Game

Purpose: To practically apply teachings about ladder safety with a fun, memorable game.

Time: 1-3 minutes per person

Materials:

Plinko Board and chips*

- Build a Plinko board: there are lots of tutorials out there!
 - We used: https://learn.kregtool.com/plans/plinko-game-board/
 - o Smaller version: https://diy.dunnlumber.com/projects/how-to-make-a-diy-plinko-game-board
- Buy a Plinko board
 - o <u>https://www.amazon.com/WinSpin-Prize-Board-Playing-Carnival/dp/B077SZFXVR/ref=sxin_14_ac_d_bv</u>
 - o <u>https://www.amazon.com/GoSports-DROPSTER-Prize-Customizable-Slots/dp/B081W4NZKG/ref=sr_1_31</u>

Directions:

Provide information on ladder safety (banners, posters, handouts, etc).

- How to choose the right ladder for the job they need to do consider:
 - Type of ladder (step ladder or extension ladder at a minimum, can include others) and when to use each:
 - if accessing another level, you must use extension ladder
 - a step ladder is best for longer jobs
 - $\circ~$ Ladder height ladder should get you within 4' of work area
 - special considerations for extension ladder length (section overlap, must extend 3' past support point if you are stepping off ladder onto another level, a ladder can be too long)
 - \circ Ladder composition what the ladder is made of, pros/cons of different materials
 - Appropriate footings make sure ladder is "non-slip" by using footings appropriate for job site (non-slip "shoes", spurs, spikes, etc)
 - Weight limit all ladders have a maximum load capacity, don't exceed it!
- Guidelines for setting up each type of ladder
 - Check for overhead hazards especially be aware of electric lines
 - o Position the ladder correctly
 - Extension ladder: should lean at about 75° or "1 out for every 4 up"
 - Step ladder: need to have all four feet on a level surface so step ladder is stable
 - \circ Ensure all locking devices are engaged
 - $\circ~$ If accessing another level, ladder should extend 3' above that surface
- Using the ladder
 - $\circ~$ Maintain three points of contact when climbing
 - o Don't go above last usable step (4th rung from top on extension ladder, 2nd step from top of step ladder)
 - \circ Do not lean too far to side while working ("keep belt buckle between the rails")

* This game could also be played using dice or a spinning prize wheel – whatever you have/can easily get

Develop questions/scenarios

- A different scenario goes with each slot (designate with number, letter, color, etc)
- Create scenarios that would reflect common tasks on a farm that require using a ladder. Our scenarios:
 - You need to replace light bulbs in the pole barn. The fixtures are mounted 15' high on each pole.
 - You need to get on the roof to replace a few shingles that came loose in the last storm. The edge of the roof is 23' high.
 - You want to install a weather monitoring station on the roof of the shop. The roof is 17' high and an electric line is nearby.
 - It is time to install the sprinklers in the hoophouse. The pipes should run about 12' high down the center of the hoophouse. (you may need to explain what a hoophouse is
 - Billy Bob painted his barn John Deere green as a surprise for Charlene. He asks you add yellow trim along the roof the peak of the barn is 32' high.
 - It's time to clean out the hay loft in the old barn. The hatch to enter is 10' above an uneven floor.

Game Play

- Give people time to look at the displayed information before inviting them to play.
- Each person who plays drops a plinko chip into the board note which slot it lands in.
- Read the appropriate scenario.
- Ask: "Which ladder would you choose to do this job?" (You can leave it open ended or give choices. For younger audiences, you might ask only one aspect e.g., "Should you use a step ladder or extension ladder?")
 - If they got it right, give them a prize.
 - $\circ~$ If they got it wrong, explain what the right answer would be and why.

Tips for engaging your audience

- Most of the time, people will see the game and choose to play without much effort (having prizes helps)
- If someone approaches but doesn't engage, you can ask a question like:
 - Have you ever fallen off a ladder?
 - Do you know anyone who has fallen off a ladder?
 - What do you know about ladder safety?
 - Do you want to play?

Find our ladder safety resources at <u>www.gpcah.org</u>.