

# CLIMBING GAMES TRIVIA SET · 100 CARDS (WALL OF FOOLS EDITION)

Sized for the Bambu Lab A1 Printable Deck Box (100 × 75 × 48 mm) · Australian Crag, Knots, Grades, Lead Safety & Gym Setting

**CARD #001****AU CRAGS****V1 / Grade 14**

**Q:** Which Victorian sandstone bluff near Natimuk is known globally as one of the world's premier traditional climbing crags?

**A:** Mount Arapiles (Djurite) — over 3,000 multi-pitch and single-pitch trad routes.

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**CARD #002****AU CRAGS****V1 / Grade 13**

**Q:** What is the classic 3-pitch Grade 13 (5.6) introductory trad climb up the Declaration Crag area at Mount Arapiles?

**A:** Tiptoe Ridge (120m, Grade 13) — first ascended by Chris Dewhirst and party in 1966.

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**CARD #003****AU CRAGS****V8 / Grade 33**

**Q:** Which iconic Mount Arapiles overhang route did Wolfgang Güllich climb in 1985 as the world's first 8b+ (Grade 33)?

**A:** Punks in the Gym (Grade 32/33, 8b+) on the Pharos Wall.

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**CARD #004****AU CRAGS****V0 / Grade 12**

**Q:** Which sprawling sandstone mountain range in western Victoria sits right in the Grampians National Park and hosts world-class bouldering and sport climbing?

**A:** The Grampians (Gariwerd).

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**CARD #005****AU CRAGS****V10 / Grade 34**

**Q:** What is the famous Klem Loskot / modern testpiece boulder cave in the Grampians featuring 'Wheel of Life' (90+ moves, V15 / 8C)?

**A:** Hollow Mountain Cave (Wudjub-Guyun) in the Northern Grampians (Gariwerd).

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**CARD #006****AU CRAGS****V9 / Grade 32**

**Q:** Who completed the first ascent of 'The Wheel of Life' link-up in Hollow Mountain Cave in 2004?

**A:** Dai Koyamada (linking Xtreme Cool, Sleepy Hollow, Cave Man, and Dead Can't Dance).

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**CARD #007****AU CRAGS****V2 / Grade 16**

**Q:** In the Australian Ewbank grading system, who invented the open-ended numerical scale in the Blue Mountains in 1967?

**A:** John Ewbank (starting at Grade 1 and remaining open-ended with no letter subdivisions).

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**CARD #008****AU CRAGS****V4 / Grade 21**

**Q:** What famous 1969 John Ewbank route at Mount Arapiles defined Australian hard free climbing at Grade 21?

**A:** Theacherous (or Janiceps, Grade 21, 1969) at Mount Arapiles.

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**CARD #009****AU CRAGS****V1 / Grade 15**

**Q:** Which sheer basalt column quarry near Melbourne (Burnley / Clifton Hill) served as the historic urban training ground for Victorian climbers?

**A:** Burnley Bouldering Wall & Merri Creek Basalt / Alphington Quarry.

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**CARD #010****AU CRAGS****V5 / Grade 25**

**Q:** Which Tasmanian dolerite sea stack did Paul Pritchard, Steve Monks, and Celia Bull famously climb via 'The Slender Thread'?

**A:** The Totem Pole at Cape Hauy, Tasman Peninsula (65m sea stack).

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**CARD #011****AU CRAGS****V6 / Grade 28**

**Q:** Which Blue Mountains crag is famous for steep horizontal sandstone rail lines like 'Groove Train' (Grade 33)?

**A:** Centennial Glen / Diamond Falls / Elphinstone in the Blue Mountains, NSW.

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**CARD #012****AU CRAGS****V2 / Grade 17**

**Q:** What type of rock forms Mount Arapiles and the Grampians, prized for its high-friction iron-oxide desert varnish and incut horizontal breaks?

**A:** Silicified quartzose sandstone (orthoquartzite).

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**CARD #013****AU CRAGS****V4 / Grade 21**

**Q:** At Mount Arapiles, what is the name of the famous Grade 18 hand-traverse crack across a clean vertical wall in the Organ Pipes?

**A:** Bard (Grade 18) / Consumer's Guide (Grade 16) / Kachoong (Grade 21).

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**CARD #014****AU CRAGS****V4 / Grade 21**

**Q:** What makes 'Kachoong' (Grade 21) at Mount Arapiles one of the most photographed climbs in Australia?

**A:** Its wildly exposed overhanging roof traverse just above the Pines campground.

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**CARD #015****AU CRAGS****V3 / Grade 19**

**Q:** Which high-altitude granite tors in Victoria's Alpine National Park offer cool summer crack and slab climbing above 1,700m?

**A:** Mount Buffalo (The Horn, The Cathedral, and The Gorge — 300m granite big-wall).

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**CARD #016****AU CRAGS****V6 / Grade 28**

**Q:** How tall is the North Wall of the Mount Buffalo Gorge in Victoria?

**A:** Up to 300 metres of steep featured granite (routes like Ozymandias, Grade 28).

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**CARD #017****AU CRAGS****V3 / Grade 18**

**Q:** Which volcanic plug cluster in Queensland offers multi-pitch trachyte crack and face climbing such as Tibrogargan and Coonowrin?

**A:** The Glass House Mountains, Sunshine Coast Hinterland.

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**CARD #018****AU CRAGS****V1 / Grade 14**

**Q:** When climbing on Victorian sandstone after heavy rain, why must climbers wait until the rock is completely dry?

**A:** Wet sandstone loses up to 50-70% of its cementation tensile strength, causing holds to snap off permanently.

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**CARD #019****AU CRAGS****V2 / Grade 16**

**Q:** What classic multi-pitch route scales the central prow of The Watchtower Face at Mount Arapiles at Grade 16?

**A:** Watchtower Crack (Grade 16, 4 pitches).

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**CARD #020****AU CRAGS****V2 / Grade 16**

**Q:** Which Victorian granite crag near Harcourt / Castlemaine is renowned for coarse crystal friction slabs and boulder problems?

**A:** Mount Alexander (Leanganook) Dog Rocks & Langs Lookout.

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**CARD #021****KNOTS & ROPE****V0 / Grade 12**

**Q:** Which tie-in knot forms a figure-8 loop woven directly through both the waistbelt and leg-loop tie-in points of a harness?

**A:** Retraced Figure-8 (Figure-8 Follow-Through) with at least 10-15 cm of tail.

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**CARD #022****KNOTS & ROPE****V2 / Grade 16**

**Q:** Which friction hitch is tied with a cord loop wrapped 3 times around the main rope and passed through itself to back up a rappel?

**A:** Prusik Hitch (or Autoblock / Machard / Klemheist).

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**CARD #023****KNOTS & ROPE****V3 / Grade 18**

**Q:** Which bidirectional sliding hitch using two half-turns around a pear-shaped HMS carabiner allows emergency belaying or rappelling?

**A:** Munter Hitch (Italian Hitch).

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**CARD #024****KNOTS & ROPE****V3 / Grade 19**

**Q:** Why must a Munter Hitch be clipped into a wide pear-shaped HMS carabiner rather than a narrow D-shaped carabiner?

**A:** So the rope can roll smoothly through the carabiner basket when switching between braking and paying out slack.

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**CARD #025****KNOTS & ROPE****V4 / Grade 22**

**Q:** Which simple, easy-to-untie bend is recommended by the UIAA and guide associations for joining two ropes of similar diameter for an abseil?

**A:** Offset Overhand Bend (Flat Overhand / EDK — European Death Knot) with 30cm+ tails and a backup knot.

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**CARD #026****KNOTS & ROPE****V1 / Grade 15**

**Q:** Which hitch allows a climber to anchor securely into a belay station using the climbing rope itself while remaining easily adjustable under load?

**A:** Clove Hitch clipped into a locking carabiner on the master point.

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**CARD #027****KNOTS & ROPE****V0 / Grade 12**

**Q:** What knot is tied in the very end of the free rope before lead climbing or rappelling so the rope cannot slip completely through the belay device?

**A:** Stopper Knot (Barrel Knot / Double Overhand or Figure-8 on a bight).

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**CARD #028****KNOTS & ROPE****V5 / Grade 24**

**Q:** What is the typical UIAA impact force rating limit for a Single Dynamic Climbing Rope (marked with a circled '1')?

**A:** Maximum 12 kN (kilonewtons) on the first UIAA standard fall with an 80 kg mass.

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**CARD #029****KNOTS & ROPE****V1 / Grade 14**

**Q:** How does a Dynamic Rope differ mechanically from a Low-Stretch Static Rope?

**A:** A dynamic rope elongates 6-10% under body weight and up to 30-40% in a severe lead fall to absorb kinetic energy.

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**CARD #030****KNOTS & ROPE****V2 / Grade 17**

**Q:** What is the standard minimum breaking strength (MBS) along the major axis (spine, gate closed) of a UIAA/CE certified climbing carabiner?

**A:** At least 20 kN (typically 22-28 kN).

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**CARD #031****KNOTS & ROPE****V3 / Grade 18**

**Q:** What happens to a carabiner's breaking strength if it is loaded with the gate open or cross-loaded across the gate?

**A:** Its strength drops by 60-70% (often down to 7-9 kN), making gate-closed spine loading critical.

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**CARD #032****KNOTS & ROPE****V4 / Grade 20**

**Q:** Which directional friction hitch uses webbing or cord wrapped downward around a rope and clipped only through the bottom loop?

**A:** Klemheist Hitch (grips when pulled downward, slides freely when pushed upward).

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**CARD #033****KNOTS & ROPE****V3 / Grade 18**

**Q:** When tying a Double Fisherman's Bend (Grapevine Knot) to form a 7mm cord Prusik loop, why is it favoured for permanent loops?

**A:** It is compact, self-tightening, and highly resistant to working loose under cyclic loading.

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**CARD #034****KNOTS & ROPE****V4 / Grade 21**

**Q:** What is the 'Bowline on a Bight' or 'Double Bowline with Yosemite Finish' advantage after repeated hard sport-climbing falls?

**A:** Unlike a Figure-8 which cinches tight, a properly backed-up Bowline stays easy to untie after heavy falls.

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**CARD #035****KNOTS & ROPE****V2 / Grade 16**

**Q:** What is the core-and-sheath construction of modern climbing ropes called?

**A:** Kernmantle ('Kern' = load-bearing braided/twisted nylon core; 'Mantle' = woven protective outer sheath).

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**CARD #036****KNOTS & ROPE****V2 / Grade 17**

**Q:** What knot is used to join two ends of tubular nylon webbing into a runner/sling?

**A:** Water Knot (Ring Bend / Retraced Overhand in webbing) with 8-10cm tails inspected before every climb.

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**CARD #037****KNOTS & ROPE****V5 / Grade 25**

**Q:** What is 'Fall Factor' in lead climbing and what is the maximum theoretical Fall Factor on a normal single/multi-pitch lead climb?

**A:** Fall Factor = Fall Distance / Active Rope Length; maximum is Fall Factor 2.0 (falling past the belay anchor with zero intermediate gear).

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**CARD #038****KNOTS & ROPE****V5 / Grade 25**

**Q:** Why does a 2-metre fall onto a 1-metre static daisy chain at a belay ledge generate far higher force than a 6-metre lead fall with 30m of rope out?

**A:** Because the Fall Factor is 2.0 vs 0.2 — less rope is available to stretch and absorb the energy.

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**CARD #039****KNOTS & ROPE****V3 / Grade 19**

**Q:** Which knot allows you to isolate a damaged section in the middle of a climbing rope while keeping the rope continuous under tension?

**A:** Alpine Butterfly Knot.

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**CARD #040****KNOTS & ROPE****V4 / Grade 20**

**Q:** What does a '1/2' symbol inside a circle on a rope end-label indicate?

**A:** A Half Rope (Double Rope), designed to be used in pairs clipped alternately to reduce rope drag on wandering trad routes.

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**CARD #041****GRADES & BETA****V2 / Grade 16**

**Q:** What does the 'V' in the V-Scale bouldering grade system (V0 to V17) stand for?

**A:** John 'Vermin' Sherman, who developed the Hueco Tanks V-Scale in the late 1980s.

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**CARD #042****GRADES & BETA****V4 / Grade 24**

**Q:** Approximately what Australian Ewbank route grade corresponds to French 7a / Yosemite 5.11d?

**A:** Australian Grade 24.

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**CARD #043****GRADES & BETA****V7 / Grade 29**

**Q:** Approximately what Australian Ewbank route grade corresponds to French 8a / Yosemite 5.13b?

**A:** Australian Grade 29.

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**CARD #044****GRADES & BETA****V10 / Grade 33**

**Q:** In bouldering, what is the Fontainebleau equivalent of V10?

**A:** Font 7C+.

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**CARD #045****GRADES & BETA****V1 / Grade 14**

**Q:** What is the term for climbing a route on your very first attempt with zero prior knowledge, beta, or inspection of other climbers?

**A:** An Onsight.

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**CARD #046****GRADES & BETA****V1 / Grade 14**

**Q:** How does a 'Flash' differ from an 'Onsight'?

**A:** A Flash is also completed on the first try, but WITH prior beta, watching someone else climb it, or having holds pointed out.

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**CARD #047****GRADES & BETA****V3 / Grade 18**

**Q:** Where did the term 'Redpoint' (Rotpunkt) originate in the 1970s?

**A:** Kurt Albert in the Frankenjura (Germany), who painted a red dot at the base of routes he climbed completely free without resting on gear.

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**CARD #048****GRADES & BETA****V3 / Grade 19**

**Q:** What is a 'Gaston' move in climbing?

**A:** Pulling outward away from your centerline with thumb pointing down and elbow flared out, as if prying open elevator doors.

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**CARD #049****GRADES & BETA****V1 / Grade 15**

**Q:** What is an 'Undercling' hold?

**A:** A hold oriented upside-down where you grip from underneath with palms facing upward and pull into oppositional foot pressure.

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**CARD #050****GRADES & BETA****V2 / Grade 16**

**Q:** What is 'Flagging' in climbing footwork?

**A:** Extending one non-weight-bearing leg out to the side, behind, or in front of the standing leg as a counterbalance to prevent barn-dooring.

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**CARD #051****GRADES & BETA****V3 / Grade 18**

**Q:** What is a 'Drop Knee' (Egyptian) technique?

**A:** Rotating one hip firmly into the wall by twisting the foot onto its outside edge and dropping the knee downward to extend upward reach on steep walls.

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**CARD #052****GRADES & BETA****V2 / Grade 17**

**Q:** What is a 'Heel Hook' and which leg muscle group primarily drives it?

**A:** Hooking the rubber heel of the climbing shoe onto a hold or volume and pulling hard with the hamstrings and glutes.

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**CARD #053****GRADES & BETA****V4 / Grade 20**

**Q:** What is a 'Toe Hook' and when is it essential?

**A:** Engaging the top rubber patch over the toes onto an overhang lip or volume to keep the hips pulled into a steep roof.

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**CARD #054****GRADES & BETA****V1 / Grade 15**

**Q:** What is 'Smearing' in footwork?

**A:** Pressing the broadest front section of the climbing shoe rubber directly against featureless slab rock to generate pure friction without an edge.

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**CARD #055****GRADES & BETA****V2 / Grade 17**

**Q:** Why do you lower your heels slightly when smearing on a friction slab?

**A:** Lowering the heel maximizes the surface area of sticky rubber in contact with the rock.

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**CARD #056****GRADES & BETA****V3 / Grade 18**

**Q:** What is a 'Dyno' (Dynamic Move)?

**A:** An explosive jump move where all four points of contact leave the wall simultaneously to catch a distant hold.

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**CARD #057****GRADES & BETA****V4 / Grade 20**

**Q:** What is a 'Deadpoint' move compared to a full Dyno?

**A:** A controlled dynamic lunge where you grab the target hold at the exact apex (zero-velocity moment) of your upward body swing while keeping feet on.

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**CARD #058****GRADES & BETA****V1 / Grade 15**

**Q:** What is the 'Barn Door' effect on a climbing wall?

**A:** When your hand and foot are on the same vertical axis and your body swings uncontrollably away from the wall like a hinged door.

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**CARD #059****GRADES & BETA****V5 / Grade 23**

**Q:** What is the difference between an Open-Hand Grip, Half-Crimp, and Full-Crimp?

**A:** Open-hand keeps PIP joints extended; Half-Crimp bends PIP joints at 90 degrees without thumb lock; Full-Crimp hyperextends DIP and locks the thumb over the index finger.

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**CARD #060****GRADES & BETA****V5 / Grade 24**

**Q:** Why do coaches recommend training primarily in the Half-Crimp and Open-Hand positions rather than Full-Crimp?

**A:** Full-crimping places extreme load on the A2 and A4 finger pulleys, greatly increasing the risk of pulley ruptures.

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**CARD #061****LEAD & SAFETY****V2 / Grade 17**

**Q:** In the 'Wall of Fools' game and real lead climbing, what is 'Back-Clipping' a quickdraw?

**A:** Clipping the rope from back-to-front so the climber's end exits toward the rock wall instead of outward — allowing the rope to unclip itself across the gate during a fall!

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**CARD #062****LEAD & SAFETY****V2 / Grade 17**

**Q:** What is 'Z-Clipping' on a sport lead climb?

**A:** Grabbing the rope from BELOW the previous quickdraw and clipping it into the next higher quickdraw, creating a locked Z-loop of massive friction.

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**CARD #063****LEAD & SAFETY****V3 / Grade 19**

**Q:** Which way should the lower (rope-end) carabiner gate of a quickdraw face on a traversing lead climb?

**A:** The gate must face AWAY from the climber's direction of travel so rope movement cannot lever the gate open against the nose.

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**CARD #064****LEAD & SAFETY****V4 / Grade 21**

**Q:** Why do quickdraws have a tight rubber keeper ('String' or 'Tadpole') on the bottom rope carabiner ONLY, and a loose top bolt carabiner?

**A:** The bottom keeper holds the rope carabiner in spine alignment while clipping; the top carabiner must pivot freely on the bolt hanger.

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**CARD #065****LEAD & SAFETY****V1 / Grade 15**

**Q:** When lead climbing, why must the climber never let their leg pass BEHIND the climbing rope while stepping above a bolt?

**A:** If the climber falls with the rope behind their leg or ankle, the rope will flip them upside-down violently onto their head.

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**CARD #066****LEAD & SAFETY****V3 / Grade 19**

**Q:** What does the acronym 'SERENE' or 'EARNEST' stand for when building a climbing anchor?

**A:** Solid, Equalized, Redundant, Efficient, No Extension (avoiding shock-loading if one piece fails).

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**CARD #067****LEAD & SAFETY****V4 / Grade 20**

**Q:** When placing an American Death Triangle anchor, why is it dangerous?

**A:** Looping a single sling in a closed triangle through two bolts and the master point amplifies load on the bolts and offers zero redundancy if cut.

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**CARD #068****LEAD & SAFETY****V0 / Grade 10**

**Q:** What is the golden rule of the brake hand when belaying with a tube-style or assisted-braking device?

**A:** NEVER let go of the brake strand with your brake hand under any circumstances.

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**CARD #069****LEAD & SAFETY****V4 / Grade 21**

**Q:** What is a 'Soft Catch' in lead belaying and when should a belayer give one?

**A:** Hopping or moving upward slightly as the rope comes tight in a lead fall (when clear of ground/ledge hazards) to cushion the impact and prevent slamming the climber into the wall.

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**CARD #070****LEAD & SAFETY****V4 / Grade 21**

**Q:** When should a belayer give a 'Hard Catch' instead of a soft catch?

**A:** On the first 1-3 bolts near the ground, or immediately above a ledge or roof lip where extra rope stretch could cause a ground or ledge fall.

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**CARD #071****LEAD & SAFETY****V0 / Grade 12**

**Q:** Before leaving the ground on any roped climb, what are the 5 points of the Partner Buddy Check?

**A:** 1. Harness buckles doubled/fastened; 2. Tie-in knot (Figure-8 + tail) through both loops; 3. Belay device threaded correctly + locking biner locked; 4. Rope flaked + end stopper knot; 5. Commands agreed.

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**CARD #072****LEAD & SAFETY****V2 / Grade 16**

**Q:** What is the difference between a Tube Belay Device (e.g. ATC) and an Assisted-Braking Device (e.g. GriGri / Jul / Pinch)?

**A:** An assisted-braking device uses a pivoting cam or pinch geometry to pinch the rope under sudden fall load, though it still requires continuous brake-hand control.

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**CARD #073****LEAD & SAFETY****V3 / Grade 18**

**Q:** When cleaning a sport anchor to be lowered (rather than rappelling), why is it safer to thread a bight of rope through the rings before unclipping your personal anchor?

**A:** Because you stay redundantly tied in the entire time ('Lowering off a threaded bight' vs untying completely at the chains).

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**CARD #074****LEAD & SAFETY****V4 / Grade 22**

**Q:** In traditional (trad) climbing, how does an active Spring-Loaded Camming Device (Cam) stay in a parallel crack?

**A:** Logarithmic spiral cam lobes convert a downward pull on the stem into outward normal force against both walls of the crack.

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**CARD #075****LEAD & SAFETY****V3 / Grade 19**

**Q:** Why is a passive tapered Nut (Wire / Stopper) often stronger than a cam in a flaring or constricted placement?

**A:** It has no moving parts and wedges mechanically into a constriction up to the breaking strength of its steel cable (7-12 kN).

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**CARD #076****LEAD & SAFETY****V4 / Grade 21**

**Q:** What is the safe retraction percentage range for placing a four-lobe climbing cam in a crack?

**A:** Typically 50% to 85% retracted ('in the middle third of its camming range') — never completely tipped out or fully umbrella'd.

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**CARD #077****LEAD & SAFETY****V3 / Grade 18**

**Q:** Why should climbers extend quickdraws with 60cm alpine draws on wandering trad or multi-pitch routes?

**A:** To keep the rope running in a straight line, minimizing rope drag and preventing rope movement from walking cams or lifting nuts out of cracks.

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**CARD #078****LEAD & SAFETY****V2 / Grade 16**

**Q:** What does UIAA stand for?

**A:** Union Internationale des Associations d'Alpinisme (International Climbing and Mountaineering Federation).

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**CARD #079****LEAD & SAFETY****V4 / Grade 20**

**Q:** Why should nylon slings and ropes NEVER come into contact with car battery acid, bleach, or strong solvents?

**A:** Acids cause invisible hydrolysis of nylon polymers, reducing a 22 kN sling to breaking under body weight with zero visible discoloration.

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**CARD #080****LEAD & SAFETY****V1 / Grade 14**

**Q:** When spotting a boulderer outdoors or in a gym, what part of their body are you protecting?

**A:** Their head, neck, and upper spine — guiding their torso upright onto the crash pads with spoons/thumbs tucked in, NOT trying to catch their full weight.

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**CARD #081****GYM & GEAR****V2 / Grade 16**

**Q:** What standard metric bolt thread and T-nut size is used on commercial climbing walls across Australia and Europe?

**A:** M10 x 1.5 coarse metric socket-head cap bolts (driven with an 8mm hex Allen key).

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**CARD #082****GYM & GEAR****V3 / Grade 18**

**Q:** How many T-nuts per square metre do commercial bouldering gym wall panels (1.2m x 1.2m or 2.4m x 1.2m) typically feature?

**A:** Between 25 and 44 T-nuts per m<sup>2</sup> (typically a 150mm-200mm staggered or diamond grid, ~36-50 T-nuts per 1.2x1.2m panel).

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**CARD #083****GYM & GEAR****V2 / Grade 16**

**Q:** What plywood thickness is standard for structural commercial and home woody climbing wall panels?

**A:** 18mm (3/4 inch) structural birch or marine/CD structural plywood.

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**CARD #084****GYM & GEAR****V4 / Grade 21**

**Q:** Why does the Scarpa Drago LV use Vibram XS Grip 2 rubber instead of stiffer Vibram XS Edge?

**A:** XS Grip 2 is softer and conforms better to steep bouldering volumes and smears, while XS Edge resists rolling on tiny vertical edges.

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**CARD #085****GYM & GEAR****V1 / Grade 13**

**Q:** What chemical compound makes up gym climbing chalk?

**A:** Magnesium carbonate (MgCO<sub>3</sub>), which absorbs skin sweat without creating a slippery paste.

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**CARD #086****GYM & GEAR****V3 / Grade 19**

**Q:** When printing climbing holds on a Bambu Lab A1 (256x256x256 mm), why do we use 5-6 wall loops and 40%+ Gyroid infill?

**A:** Compressive bolt clamping force and shear load travel through the perimeter shell and isotropic gyroid core; walls add far more strength than infill alone.

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**CARD #087****GYM & GEAR****V4 / Grade 22**

**Q:** How do you prevent a 3D-printed climbing hold from splitting when tightening an M10 bolt?

**A:** Embed a steel washer inside a 22mm counterbore recess and print with the bolt axis perpendicular to the build plate (or use the print as a silicone mold master for polyurethane resin).

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**CARD #088****GYM & GEAR****V3 / Grade 18**

**Q:** What Bambu Studio slicer feature adds a realistic gritty sandstone texture to the outer surface of 3D-printed climbing holds?

**A:** Fuzzy Skin (Contour mode: 0.2mm point distance, 0.15-0.25mm skin thickness).

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**CARD #089****GYM & GEAR****V4 / Grade 20**

**Q:** In commercial bouldering gym design, what is the standard maximum wall height and crash-mat thickness under Australian/EN 12572-2 standards?

**A:** 4.2m to 4.5m maximum bouldering wall height over 300mm-400mm dual-density foam safety matting with seamless velcro/vinyl top cover.

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**CARD #090****GYM & GEAR****V2 / Grade 17**

**Q:** What is a 'Kilter Board', 'MoonBoard', or 'Tension Board' in a bouldering gym?

**A:** A standardized LED-lit training wall with fixed hold layouts and adjustable overhang angles (0° to 70°) shared by climbers worldwide.

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**CARD #091****GYM & GEAR****V2 / Grade 16**

**Q:** What is 'Route Setting' in a bouldering gym and how often do commercial gyms reset each wall sector?

**A:** Designing movement problems by colour/grade; commercial gyms typically strip, pressure-wash holds, and reset 15-20% of the gym every week (6-week full rotation).

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**CARD #092****GYM & GEAR****V1 / Grade 15**

**Q:** Why do route setters place a small directional screw-on 'Jib' foot hold next to the starting handhold(s) to indicate a boulder start?

**A:** In modern competition and gym setting, four tape/jib markers designate the mandatory two hand and two foot starting points (or double-marker for single-hold starts).

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**CARD #093****GYM & GEAR****V2 / Grade 16**

**Q:** In IFSC Bouldering competitions, how long must a climber control the 'Top' hold with both hands for the Referee to award a Top?

**A:** Typically a controlled two-handed match for 2-3 seconds until the judge signals 'OK'.

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**CARD #094****GYM & GEAR****V1 / Grade 14**

**Q:** What is a 'Zone' hold in bouldering competitions?

**A:** An intermediate scoring hold halfway up the boulder problem that acts as a tie-breaker if neither climber reaches the Top.

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**CARD #095****GYM & GEAR****V2 / Grade 16****Q:** What is a 'Macro Volume' on a climbing wall?

**A:** A large hollow geometric plywood or fibreglass prism bolted or screwed to the wall surface to change wall angles and accept bolt-on holds on its faces.

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**CARD #096****GYM & GEAR****V3 / Grade 19****Q:** What is the recommended minimum ceiling height for a commercial bouldering gym warehouse?

**A:** 5.2m to 6.0m clear span eaves height (allowing 4.5m wall + 0.35m mat + overhead clearance and HVAC/lighting).

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**CARD #097****GYM & GEAR****V0 / Grade 12****Q:** In the 'Wall of Fools' tabletop lead-climbing game, how do you win the summit duel?

**A:** Draw and answer a Trivia Card to earn 1-3 Grip Moves, advance your articulated Climber up the peg holds, clip each mini quickdraw before passing it, and clip the top anchor first!

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**CARD #098****GYM & GEAR****V1 / Grade 14****Q:** What happens in 'Wall of Fools' if a player moves their climber 2 rows above a mini quickdraw without clipping the lead cord?

**A:** If they miss the next trivia question, they take a 'Whipper' down to two rows below their last clipped quickdraw!

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**CARD #099****GYM & GEAR****V2 / Grade 16****Q:** What filament material is best for printing the Wall of Fools articulated climber's C-hook hands and shoe hooks on a Bambu Lab A1?

**A:** PETG or PLA Tough (or TPU 95A for ultra-grippy climbing shoe boots) at 0.16mm-0.20mm layer height.

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**CARD #100****GYM & GEAR****V0 / Grade 12****Q:** Why is the Wall of Fools modular board sized at 220 x 220 x 12 mm?

**A:** So it prints flat in one piece with zero supports on the Bambu Lab A1's 256 x 256 mm PEI build plate with room to spare for the two A-frame stand feet!

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