



BUILD • LEARN • GROW

Practical Learning That Lasts a Lifetime

Make & Grow resources help learners develop confidence, creativity and real-world skills through hands-on projects.

Explore, build, test, improve and be proud of what you make!



THINK



PLAN



BUILD



TEST



IMPROVE

WANT TO FIND OUT
MORE ABOUT
MAKE & GROW
WORKSHOP
SCAN HERE!



WHAT'S IN THIS PACK?

Everything you need to plan, build and deliver exciting projects.



Step-by-step
workbooks



Worksheets
& activities



Build project
guides



Creative
challenges



Bonus
resources

CHOOSE YOUR CHALLENGE LEVEL

Our resources are designed at four challenge levels to suit different skills and experience. Start where you are, grow your skills and take your building to the next level!

BRONZE BUILDER



Perfect for beginners!
Use household and recycled materials to create fun, simple projects.

- ✓ Easy to follow
- ✓ Low cost
- ✓ Creative & fun
- ✓ Build confidence
- ✓ Great for all ages
- ✓ Learn basic skills

RECYCLE • CREATE • PLAY

SILVER BUILDER



Take your skills further!
Work with real timber and learn essential woodworking techniques.

- ✓ Real tools
- ✓ Woodworking skills
- ✓ Step-by-step guidance
- ✓ Stronger builds
- ✓ More independence
- ✓ Build with accuracy

LEARN • PRACTICE • IMPROVE

GOLD BUILDER



Plan, design and build like a pro! Create high-quality, adjustable and long-lasting projects.

- ✓ Independent planning
- ✓ Working drawings
- ✓ Strong construction
- ✓ Advanced joins
- ✓ Custom designs
- ✓ Real-world challenges

DESIGN • BUILD • EXCEL

PLATINUM BUILDER



The ultimate challenge!
Innovate, problem solve and create outstanding projects that inspire others.

- ✓ Own project ideas
- ✓ Complex builds
- ✓ Real-life problem solving
- ✓ Professional quality
- ✓ Present & evaluate
- ✓ Lead & inspire others

INNOVATE • LEAD • INSPIRE

MORE RESOURCES FROM MAKE & GROW WORKSHOP



PRACTICAL WORKBOOKS

Step-by-step projects covering woodworking, gardening, STEM, outdoor learning and creative challenges.



BUILD SERIES PROJECTS

Dozens of practical build projects at all challenge levels with tools lists, plans, variations and tips.



WORKSHEETS & ACTIVITIES

Engaging worksheets to support learning across a range of subjects and age groups.



CHALLENGES & STEM

Hands-on challenges that develop problem solving, critical thinking and practical skills.



FREE RESOURCES

Hundreds of free resources available to download and use straight away!

WHO ARE OUR RESOURCES FOR?



SCHOOLS & TEACHERS

Engage learners, support the curriculum and inspire confidence through practical learning.



PARENTS

Fun, meaningful activities to build skills and confidence at home.



HOME EDUCATORS

High-quality resources to support creative, independent and hands-on learning.

RISK ASSESSMENT INCLUDED



A generic risk assessment is included in this pack to help you create a safe learning environment.

- ✓ Identify potential hazards
- ✓ Assess level of risk
- ✓ Control and reduce risks
- ✓ Work safely and responsibly

WHY LEARN WITH MAKE & GROW?



BUILD CONFIDENCE

Achieve something real and be proud.



SOLVE PROBLEMS

Think, test and improve your ideas.



WORK TOGETHER

Learn teamwork and communication skills.



DEVELOP SKILLS

Practical, transferable skills for life.



STAY SAFE

Learn to work safely and responsibly.



MAKE A DIFFERENCE

Build projects that help people and the environment

Build it • Test it • Improve it • Have fun!



FOOTBALL OBSTACLE CHALLENGE

USE HOUSEHOLD MATERIALS • DESIGN • BUILD • TEST • IMPROVE



IF YOU WANT TO
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EQUIPMENT



SKILLS YOU WILL DEVELOP

- ✓ Measuring
- ✓ Designing
- ✓ Building
- ✓ Testing
- ✓ Improving
- ✓ Accuracy
- ✓ Teamwork
- ✓ Problem Solving



SCORE CARD

Instead of simply "Did you score?"
Earn points for your skills!

SKILL	POINTS
Build completed	5
Works first time	5
Improved design	5
Creative idea	5
Strong build	5
Accurate kick	5
Teamwork	5

TOTAL /35

1 BUILD A GOAL

Using cardboard...
Can you build a goal that is:

- 40cm wide
- 30cm high

EXTRA CHALLENGE

Can you make it fold flat?



2 BUILD A TUNNEL

The ball must travel through the tunnel.

Can you make it:

- Easy
- Medium
- Hard

IDEAS

- Cardboard box
- Pringles tube
- Plastic bottles
- Cereal boxes



3 ZIG ZAG GATE

Create a slalom.

Use:

- Plastic bottles
- Cups
- Cardboard

Players must dribble through without touching anything.



4 BRIDGE

Can you build a bridge for the ball to travel over?

IDEAS

- Cardboard
- Books underneath
- Boxes



5 RAMP

Can you make the football travel up a ramp?

Test different angles.

Which angle works best?



6 KNOCK DOWN TARGET

Instead of a goal...

Knock over:

- Cups
- Bottles
- Cardboard towers



7 HIT THE FLAG

Instead of scoring...

Can you hit:

- a flag
- or
- a tennis ball balanced on a cone



8 HOOP SHOT

Use:

- Hula Hoop
- Rope hoop
- Cardboard ring

Can you kick the ball through? Try different heights.



9 PRECISION STOP

Mark a square.

Can you stop the ball inside it?

Make the square smaller each time.



10 OBSTACLE COURSE

Combine everything!

- Goal ↓
- Tunnel ↓
- Bridge ↓
- Slalom ↓
- Ramp ↓
- Target

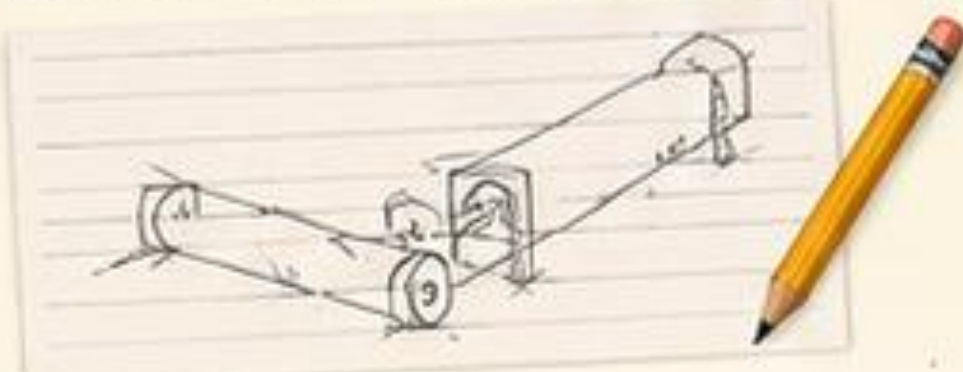


BRONZE DESIGN CHALLENGE

Can you invent your own obstacle?

Think about:

- ★ Accuracy
- ★ Power
- ★ Control
- ★ Speed
- ★ Balance



Draw your design. Build it. Test it. Improve it.



REFLECTION

- What worked well?
- What didn't work?
- What would you change?
- Was your obstacle too easy?
- Was it too difficult?
- Could another learner complete it?



★ TOP TIPS

- ✓ Plan your design before building.
- ✓ Test and improve your obstacle.
- ✓ Make it strong and safe.
- ✓ Be creative and have fun!
- ✓ Work together and share ideas.



BUILD IT • TEST IT • IMPROVE IT • PLAY IT • ENJOY IT!



BRONZE BUILDER TIPS & TECHNIQUES

BUILD SMARTER • BUILD STRONGER • BUILD BETTER

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1. CHOOSING CARDBOARD

Not all cardboard is the same.

- ✓ Double-wall cardboard is much stronger than cereal boxes.
- ✓ Corrugated cardboard is ideal for ramps and bridges.
- ✓ Thin card bends more easily and is great for curved shapes.
- ✗ Avoid damp or damaged cardboard.



2. MEASURE BEFORE YOU CUT

Remember:
Measure twice.
Cut once.

Use:

- Ruler
- Tape measure
- Set square (if available)



3. CUTTING CARDBOARD SAFELY

- Cut on a flat surface.
- Use scissors for thin card.
- Ask an adult to help if using a craft knife.
- Cut away from your body.
- Take your time.

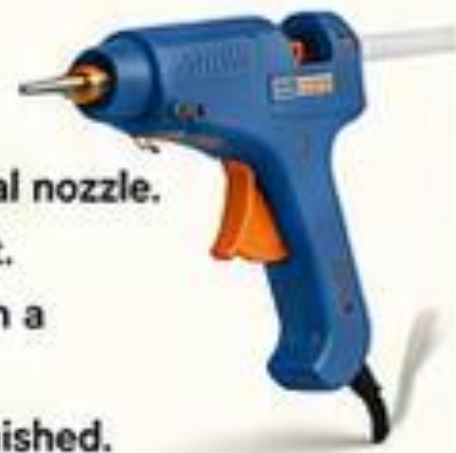


4. USING A HOT GLUE GUN

A hot glue gun creates strong joins quickly.

SAFETY

- Never touch the metal nozzle.
- Fresh glue is very hot.
- Place the glue gun on a heatproof surface.
- Switch it off when finished.
- Adult supervision recommended.



BEST TIPS

- ✓ Hold the pieces together for 20-30 seconds.
- ✓ Don't use too much glue.
- ✓ Small beads of glue are stronger than large blobs.

5. MAKING STRONG CORNERS

A weak corner is usually the first thing to fail.

STRONG METHODS

- ✓ Fold a flap and glue it.
- ✓ Add a triangular brace inside the corner.
- ✓ Glue small strips across the joint.
- ✓ Add extra layers of cardboard.



6. MAKE CARDBOARD STRONGER

You can strengthen cardboard by:

- Gluing two sheets together.
- Adding folded ribs underneath.
- Rolling cardboard into tubes.
- Folding edges over.
- Using internal supports.



7. JOINING MATERIALS

Try different joining methods.

- Glue
- Tape
- String
- Split pins
- Elastic bands
- Cable ties (adult help)
- Wooden skewers
- Pipe cleaners



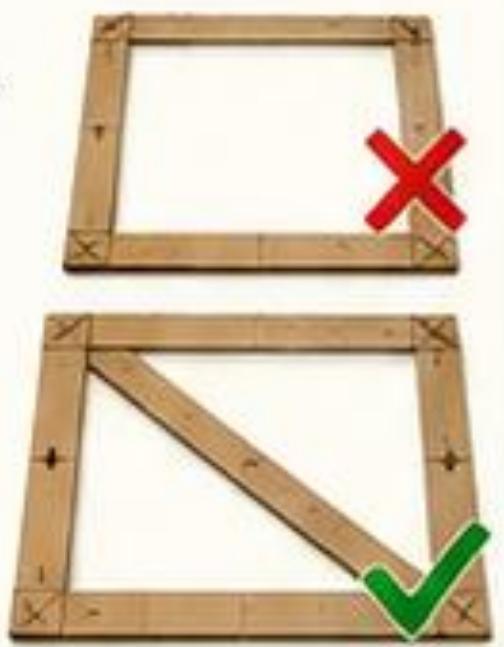
8. TRIANGLES MAKE THINGS STRONG

Builders often use triangles because they stop structures from bending.

Instead of making a square frame...

Try adding a diagonal support.

It will become much stronger.

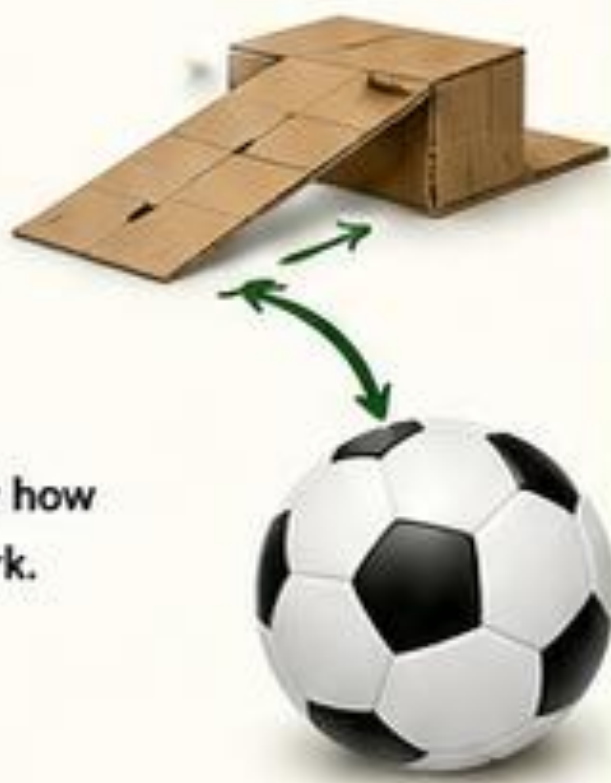


9. TEST LITTLE AND OFTEN

Don't wait until you've finished.

BUILD...
TEST...
IMPROVE...
REPEAT.

This is exactly how engineers work.



10. BUILDING FOOTBALL OBSTACLES

Ask yourself:

- ✓ Will the ball fit through?
- ✓ Is it strong enough?
- ✓ Will it tip over?
- ✓ Is it too easy?
- ✓ Is it too difficult?
- ✓ Can someone else complete it?



11. IMPROVE YOUR DESIGN

Every great invention started with a first attempt.

Try changing:

- Width
- Height
- Angle
- Weight
- Shape
- Materials

Even a small change can make a big improvement.



12. REUSE AND RECYCLE

Look around your home before buying anything.

Useful materials include:

- Cardboard boxes
- Cereal boxes
- Toilet roll tubes
- Kitchen roll tubes
- Plastic bottles
- Milk cartons
- Yogurt pots
- Egg boxes
- Bottle tops
- Ice cream tubs
- Tin cans (clean)
- Pringles tubes
- String
- Newspapers
- Bubble wrap



13. BRONZE BUILDER'S CHECKLIST

Before you start, ask yourself:

- ☐ Have I measured carefully?
- ☐ Have I marked my lines?
- ☐ Are my joins strong?
- ☐ Are my corners reinforced?
- ☐ Is it safe to use?
- ☐ Have I tested it?
- ☐ Can I improve it?



14. BRONZE BUILDER SKILLS (PRACTICE & MASTER!)

Learn these essential building skills to become a better builder!

1 Choosing Materials



2 Measuring Accurately



3 Marking Out



4 Cutting Cardboard



5 Using a Hot Glue Gun



6 Making Strong Corners



7 Reinforcing Structures



8 Building Ramps



9 Building Bridges



10 Making Hinges



11 Making Foldable Designs



12 Creating Curves



13 Joining Different Materials



14 Testing and Improving



15 Designing Like an Engineer



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FOOTBALL OBSTACLE CHALLENGE



BUILD IT • TEST IT • IMPROVE IT • PLAY IT • ENJOY IT!

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INTRODUCTION

Welcome to the Silver Builder Football Obstacle Challenge.

You have already learnt how to design and build football obstacles using household materials.

Now it's time to take the next step.

In this workbook you will use real timber, simple hand tools and basic woodworking techniques to build stronger, longer-lasting football obstacles.

LEARNING OBJECTIVES

Develop your ability to:

- ✓ Measure accurately
- ✓ Mark out timber
- ✓ Use basic woodworking tools safely
- ✓ Join timber together
- ✓ Build stronger structures
- ✓ Test and improve designs
- ✓ Work safely
- ✓ Evaluate your finished project

EQUIPMENT

MATERIALS

- Timber offcuts
- CLS timber
- Plywood
- MDF (optional)
- Wooden dowel
- Wooden battens
- Screws
- Nails
- Wood glue
- Sandpaper



TOOLS

- Tape measure
- Pencil
- Combination square
- Handsaw
- Junior hacksaw
- Sanding block
- Screwdrivers



PPE

- Safety glasses
- Ear defenders (if required)
- Dust mask
- Closed toe shoes



SKILLS YOU WILL DEVELOP



Measuring



Marking Out



Sawing



Drilling



Sanding



Screwing



Nailing



Wood Glue



Building



Testing



Improving

1 BUILD A WOODEN GOAL

Build a football goal from timber.

Suggested size:

- Width 600mm
- Height 450mm

EXTRA CHALLENGE

Add removable netting.



2 BUILD A TUNNEL

Use plywood and timber.

Can you make the tunnel:

- Easy
- Medium
- Hard

Test different widths.



3 SLALOM GATE

Build freestanding slalom gates.

Ideas:

- Timber base
- Wooden uprights
- Number each gate

Challenge:

Can they be stored flat?



4 BRIDGE

Build a bridge for the football to travel over.

Think about:

- Strength
- Stability
- Width
- Height

Test it with different footballs.



5 RAMP

Build a wooden ramp.

Investigate:

- Shallow angle
- Medium angle
- Steep angle

Which works best?



6 KNOCK DOWN TARGET

Build stackable wooden targets.

Ideas:

- Wooden blocks
- Timber cubes
- Hinged targets

Can you reset them quickly?



7 TARGET CHALLENGE

Instead of scoring into a goal... build a target to hit.

Ideas:

- Flag
- Hanging disc
- Wooden paddle
- Bell
- Spinner



8 HOOP SHOT

Build a wooden frame.

Attach:

- Hula hoop
- Rope hoop
- PVC ring

Can you change the height?



9 PRECISION BOX

Build a wooden square.

Can you stop the football inside?

Can you make interchangeable sizes?



10 FOOTBALL CHALLENGE COURSE

Connect all your obstacles.

Goal
↓
Tunnel
↓
Bridge
↓
Slalom
↓
Ramp
↓
Target
↓
Finish



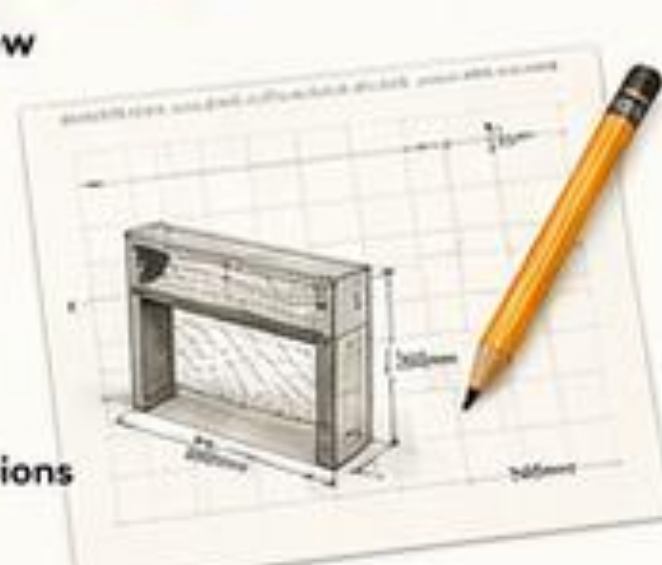
DESIGN CHALLENGE

Design a brand-new football obstacle.

Include:

- Measurements
- Materials
- Cutting list
- Drawing
- Safety considerations

Then build it.



TESTING

Ask another learner to try your obstacle.

Observe:

- Did it work?
- Was it stable?
- Was it too easy?
- Was it too difficult?
- Was anything unsafe?

Improve it.



SCORE CARD

Skill	Points
Accurate measurements	5
Safe working	5
Strong construction	5
Good teamwork	5
Creative design	5
Successful testing	5
Good finish	5
Evaluation completed	5
MAXIMUM SCORE: 40	

REFLECTION

- Which obstacle was the most successful?
- Which woodworking skill did you improve the most?
- What would you change?
- Which obstacle challenged players the most?
- Would your obstacle survive outdoor use?
- How could you make it even stronger?



THINK • DESIGN • BUILD • TEST • IMPROVE • HAVE FUN!



SILVER BUILDER SKILLS

ESSENTIAL SKILLS FOR EVERY BUILD

**BUILD BETTER.
BUILD SAFER.
BUILD WITH PRIDE.**

— ★ ★ ★ —
**PRACTICE MAKES
PROGRESS!**

1 MEASURING & MARKING OUT

- Measure twice, cut once.
- Use a sharp pencil.
- Mark on the waste side of the timber.
- Use a combination square for accurate 90° lines.
- Check your measurements before cutting.



TIP: Accurate measuring saves time and materials.

2 UNDERSTANDING TIMBER SIZES

- Nominal size is not actual size.
- Timber is planed down.
- Common sizes (mm):
 - 18 (actual 16)
 - 22 (actual 20)
 - 32 (actual 20)
 - 38 (actual 45)
 - 50 (actual 45)
 - 75 (actual 70)
 - 100 (actual 95)



TIP: Always check the actual size before you start.

3 CHOOSING THE RIGHT TIMBER

- Use straight, dry timber.
- Look for knots, cracks and splits.
- Hardwoods are stronger but heavier.
- Softwoods are easier to work with.
- Use the right timber for the job.



TIP: Good timber makes a better project.

4 USING A HANDSAW CORRECTLY

- Use a sharp saw.
- Grip the handle like this: Index finger pointing along the handle.



TIP: A relaxed grip gives better control and accuracy.

5 CUTTING STRAIGHT

- Mark a clear line.
- Use a square to guide your saw.
- Keep your body in line with the cut.
- Check your cut as you go.



TIP: Check often and correct small errors early.

6 SANDING & FINISHING

- Sand in the direction of the grain.
- Start with coarse, finish with fine.
- Smooth edges prevent splinters.
- Wipe away dust.
- A smooth finish looks better and lasts longer.



TIP: A good finish shows quality workmanship.

7 DRILLING PILOT HOLES

- Always drill a pilot hole before inserting screws.
- The pilot hole should be slightly smaller than the screw.
- This prevents timber from splitting.
- Use a drill bit the right size.



TIP: Pilot holes make your build stronger and neater.

8 HAMMERING NAILS SAFELY

- Wear safety glasses.
- Hold the nail near the head.
- Use short, controlled swings.
- Keep fingers away from the nail.
- Nail straight, not at an angle.



TIP: If a nail bends, pull it out and start again.

9 SCREWING TIMBER TOGETHER

- Use the right screwdriver or drill bit.
- Drive screws straight.
- Don't overtighten.
- Countersink screws for a flush finish.
- Check your joints are tight.



TIP: Screws are stronger than nails for most projects.

10 WOOD GLUE & CLAMPING

- Use wood glue on joints.
- Spread a thin, even layer.
- Clamp the pieces together.
- Wipe away excess glue.
- Allow to dry fully.
- Clamping creates a very strong joint.



TIP: Clamp for at least 30 minutes for best results.

11 MAKING RIGHT-ANGLE CORNERS

- Use a square to check 90°.
- Measure both diagonals.
- If they are equal, the corner is square.
- Adjust before fixing.



TIP: A square corner makes your project strong and neat.

12 REINFORCING JOINTS

- Reinforce corners with braces.
- Use triangular braces for strength.
- Add battens or blocks.
- Glue and screw for extra strength.



TIP: Reinforced joints stop your build from wobbling.

13 BUILDING STRONG FRAMES

- Use a good, strong frame as your base.
- Keep everything square.
- Add cross braces for extra rigidity.
- Strong frames make strong obstacles.



TIP: A strong frame is the foundation of success.

14 TESTING & IMPROVING

- Test as you build.
- Check stability.
- Look for weak points.
- Make improvements.
- Test again.
- Keep improving your design.



TIP: Good builders test, improve and test again.

15 LOOKING AFTER YOUR TOOLS

- Clean tools after use.
- Remove dust and dirt.
- Store tools correctly.
- Keep blades sharp.
- Look after your tools and they will look after you.



TIP: Sharp, clean tools are safer and easier to use.

GOLDEN RULES OF WORKING SAFELY



Wear safety glasses



Wear ear protection if needed



Wear a dust mask when sanding



Wear closed toe shoes



Clamp your work



Keep your work area clean



Ask for help if you're unsure

REMEMBER

- ★ Measure carefully
- ★ Work safely
- ★ Take your time
- ★ Be proud of your work
- ★ Keep learning and improving!



THINK • PLAN • MEASURE • BUILD • TEST • IMPROVE • ENJOY!



FOOTBALL OBSTACLE CHALLENGE



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PLAN • BUILD • TEST • IMPROVE • EXCEL

INTRODUCTION

Welcome to the Gold Builder Football Obstacle Challenge.

You have learnt how to build with recycled materials.

You have developed your woodworking skills.

Now it's time to become a designer, builder and problem solver.

In this workbook you will plan, measure, build and evaluate professional-quality football obstacles that are strong enough for repeated outdoor use.

Your challenge is not just to build something...

Your challenge is to build something that is:

- ✓ Safe
- ✓ Strong
- ✓ Accurate
- ✓ Durable
- ✓ Fun
- ✓ Easy to repair
- ✓ Easy to store

LEARNING OBJECTIVES

Develop your ability to

- ✓ Plan independently
- ✓ Produce working drawings
- ✓ Create cutting lists
- ✓ Select suitable materials
- ✓ Measure accurately
- ✓ Use woodworking tools confidently
- ✓ Construct strong joints
- ✓ Reinforce structures
- ✓ Build safely
- ✓ Evaluate your work

SKILLS YOU WILL DEVELOP



EQUIPMENT

MATERIALS

- CLS Timber
- PAR Timber
- Exterior plywood
- Marine plywood (optional)
- Timber battens
- Wooden dowel
- Exterior screws
- Coach screws
- Corner brackets
- Hinges
- Rope
- Netting
- Exterior wood glue
- Exterior wood stain or paint



TOOLS

- Tape measure
- Combination square
- Speed square
- Pencil
- Handsaw
- Tenon saw
- Mitre saw (if available)
- Jigsaw (supervised)
- Drill Driver
- Drill bits
- Countersink bit
- Clamps
- Orbital sander
- Sanding block



PPE

- Safety glasses
- Ear defenders
- Dust mask
- Safety footwear



1 ADJUSTABLE GOAL

Build adjustable Goal - that can be freely taken apart and put back together.

- Freestanding
- Strong
- Removable net
- Stable
- Can be moved easily



EXTENSION

Can it fold for storage?

2 ADJUSTABLE TUNNEL

Design a tunnel that can become

- Easy
- Medium
- Hard



3 PROFESSIONAL SLALOM SYSTEM

Design gates that

- Stand securely
- Can be numbered
- Can be packed away
- Can be replaced individually



4 ADJUSTABLE BRIDGE

Design a bridge with

- Stand securely
- Can be numbered
- Can be packed away
- Can be replaced individually



5 ADJUSTABLE RAMP

Can players change

- Different heights
- Different widths
- Different difficulty levels



6 RESET TARGET SYSTEM

Create targets that

- Automatically reset
- OR
- Can be reset quickly

Ideas

- Spring targets
- Weighted targets
- Pivot targets
- Magnetic targets



7 PRECISION TARGET

Design a target with

- Different scoring zones
- Different heights
- Moving targets
- Replaceable targets



8 CHALLENGE GATE

Instead of a hoop...
Invent your own challenge.

Examples

- Swing gate
- Moving gate
- Double gate
- Split gate
- Timed gate



9 ACCURACY ZONE

Design an area where learners

- Stop the ball
- Pass the ball
- Control the ball
- Receive the ball
- Score points

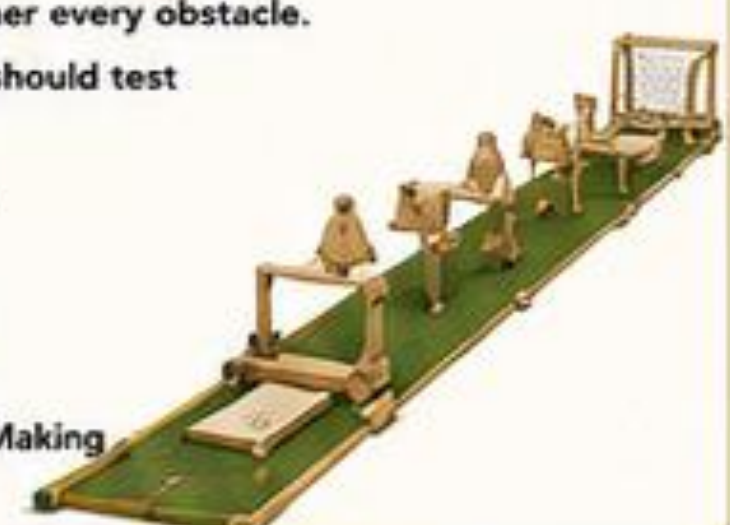


10 COMPLETE FOOTBALL SKILLS COURSE

Bring together every obstacle.

The course should test

- Passing
- Accuracy
- Power
- Control
- Balance
- Decision Making



MASTER BUILDER CHALLENGE

Design your own obstacle.

Produce

- Scale drawing
- Orthographic drawing
- Cutting list
- Materials list
- Cost estimate
- Build plan
- Risk assessment
- Testing plan

Then build it.



QUALITY CONTROL

Check

- ✓ Is it square?
- ✓ Is it level?
- ✓ Are all screws tight?
- ✓ Is it safe?
- ✓ Can it survive outdoor use?
- ✓ Can it be repaired?
- ✓ Is it easy to store?
- Is it fun?



CLIENT EVALUATION

Imagine you are building this for a school.

Ask another learner to become the client.

Can they answer

- Does it work?
- Is it safe?
- Is it enjoyable?
- Is it challenging?
- Would they use it again?
- What improvements would they like?



SCORE CARD

Skill	Points
Planning	10
Accurate Measuring	10
High Quality Build	10
Strong Construction	10
Safe Working	10
Creativity	10
Testing	10
Evaluation	10
Teamwork	10
Professional Finish	10
MAXIMUM SCORE: 100	



REFLECTION

- What are you most proud of?
- What was your biggest challenge?
- What woodworking skills have you improved?
- What would you do differently next time?

- Would your obstacle survive a whole school year?
- How could you make it easier to transport?
- Could you manufacture more than one efficiently?



GOLD BUILDER FINAL PROJECT

Instead of just completing individual obstacles, learners work in teams to design and build a complete football skills course for their school or community.

The finished course should:

- Be fully functional.
- Be safe and durable.
- Use quality workmanship.

- Include interchangeable obstacles.
- Be presented to an audience, with learners explaining their design choices, materials, construction methods and improvements.



THINK • PLAN • MEASURE • BUILD • TEST • IMPROVE • EXCEL





RISK ASSESSMENT



Risk Description	Category	L	I	Score	Level	Mitigation Actions
Slips, trips and falls	General		2	2	4 Low	Keep the work area tidy. Remove trip hazards. Clean spills immediately. Wear suitable footwear.
Manual handling of materials	Manual Handling		2	2	4 Low	Lift correctly. Ask for help with heavy items. Store materials safely.
Splinters from timber	Materials		3	2	6 Medium	Sand rough edges. Wear gloves if required. Remove splinters promptly.
Cuts from timber edges	Materials		2	2	4 Low	Inspect timber before use. Sand sharp edges. Handle carefully.
Timber falling from storage	Materials		2	3	6 Medium	Store timber flat and securely. Keep heavier pieces low down.
Incorrect use of handsaw	Hand Tools		3	3	9 Medium	Demonstrate correct grip and technique. Secure timber before cutting. Maintain a safe distance from the blade.
Cuts from hand tools	Hand Tools		2	3	6 Medium	Use tools correctly. Store safely after use. Supervise learners at all times.
Hammer strikes to fingers	Hand Tools		3	2	6 Medium	Demonstrate correct hammering technique. Hold nails correctly. Use appropriate-sized nails.
Incorrect use of drill	Power Tools		2	3	6 Medium	Clamp work securely. Use the correct drill bit. Adult supervision required where appropriate.
Flying wood chips	Eye Injury		3	2	6 Medium	Wear safety glasses during cutting, drilling and hammering.
Dust created during sanding	Dust		2	2	4 Low	Sand in a well-ventilated area. Wear a dust mask if required. Clean dust regularly.
Noise from tools	Noise		2	2	4 Low	Wear hearing protection when necessary. Limit exposure to loud equipment.
Finger trap when using clamps	Hand Tools		2	2	4 Low	Keep fingers clear when tightening clamps. Demonstrate safe use.
Wood glue contact	Chemicals		1	2	2 Low	Avoid contact with eyes. Wash hands after use. Follow manufacturer's instructions.
Burns from hot glue gun	Heat		3	3	9 Medium	Adult supervision. Never touch the nozzle or hot glue. Use on a heatproof surface.
Electric shock	Electrical		1	4	4 Low	Check equipment before use. Remove damaged equipment from service immediately.
Fire from electrical equipment	Fire		1	4	4 Low	Switch equipment off after use. Keep flammable materials away from heat sources.
Poor posture during work	Ergonomics		2	2	4 Low	Use a suitable workbench height. Encourage regular breaks.
Unsafe behaviour or horseplay	Behaviour		3	3	9 Medium	Set clear workshop rules. Stop unsafe behaviour immediately. Maintain supervision.
Failure to wear PPE	Safety		2	3	6 Medium	Ensure suitable PPE is available and worn where required.
Football striking another learner	Activity		2	2	4 Low	Clearly mark activity areas. Keep waiting learners away from the playing area.
Obstacle collapse during testing	Activity		2	3	6 Medium	Inspect obstacles before use. Test stability before allowing full use.
Outdoor weather conditions	Environment		2	2	4 Low	Check weather conditions. Stop activities during high winds, lightning or icy conditions.
Dehydration during outdoor work	Welfare		2	2	4 Low	Provide regular drink breaks, particularly during warm weather.
Allergic reactions	Medical		1	3	3 Low	Check medical information before activities. Have access to emergency contacts and first aid.
First aid incident	Emergency		2	3	6 Medium	A qualified first aider should be available. Keep a stocked first aid kit nearby. Record all accidents.



Below is a **generic** risk assessment.
As the facilitator/teacher, you will need to adapt it
to your area and learners.