

Golf Academy

Math & Statistics

My Golf Math Journal

Name

This journal belongs to a Homeschool Golf Academy student.

Stage 1: Discover & Play · Homeschool Edition · Pages can be added for Stages 2, 3, and 4

About This Journal

This is your personal Golf Math Journal. It is a place to record your scores, draw your graphs, work out your calculations, track your statistics, and keep a record of everything you discover about the math of golf.

It is organized by stage and week. Stage 1 covers six weeks of discovery. When you begin Stage 2 — Learn & Improve — new pages will be added to this journal. Your math journey grows with you.

Scientists and great golfers both keep records. Your journal is your record. Keep it honestly, draw in it freely, and come back to it to see how far you have travelled.

How to Use This Journal

- Complete the activity log after each lesson
- Use the graph pages to draw your charts and data
- Use the scorecard pages to record real rounds
- Write your observations, calculations, and questions on the notes pages
- Your personal statistics report lives in Week 6

STAGE 1: DISCOVER & PLAY

Mathematics Through Golf · 6 Weeks · My Personal Record

Stage 1 started on

Stage 1 finished on

My goal for Stage 1 Math & Statistics:

My home golf facility:

WEEK 1: COUNTING ON THE COURSE

This week you discover that golf is full of numbers — scores, pars, distances, and scorecards. Every lesson is about finding math that was always there.

Lesson 1: Golf Is a Numbers Game

Activity Log

Holes I played today:

My total score:

Total par for those holes:

Was I over or under par, and by how much?:

Lesson 2: Reading a Scorecard

Activity Log

Hole with the highest par:

Hole with the lowest par:

Front 9 total par:

Back 9 total par:

Lesson 3: Adding Up Your Score

Activity Log

Holes I played:

My total score:

Total par:

My score vs. par (over/under by how many):

Lesson 4: Distances and Numbers on the Course

Activity Log

150 yards = approximately ___ of my bedroom lengths:

My estimate of how far the 150-yard marker was from the green:

Something else I measured or estimated today:

What the number told me:

My First Scorecard

Record a real round here. Fill in your score for each hole you play.

Date	Course	Total Score	Best Hole	Worst Hole	One Thing I Learned

My Scores vs. Par (Bar Graph)

Draw one bar for each hole you played. Use GREEN for at or under par, RED for over par.

Graph Area — use the lines as a guide

A series of 15 horizontal lines spaced evenly down the page, intended for drawing a bar graph. The lines are light gray and extend across the width of the page.

Week 1 Notes and Calculations

Notes

WEEK 2: SHAPES AND PATTERNS

This week you discover the geometry of golf — circles, angles, slopes, and the shapes that architects use to design holes.

Lesson 1: Circles, Ovals, and the Putting Green

Activity Log

What shape is the green I sketched?

The longest dimension of the green (estimate):

The narrowest part of the green (estimate):

One thing I noticed about the green's shape:

Lesson 2: Straight Lines and Angles

Activity Log

The hole I analyzed for angles:

My estimate of the dogleg angle (degrees):

Which way the dogleg turned (left or right):

My aiming strategy from the tee:

Lesson 3: Patterns on the Greens

Activity Log

Uphill putt: did it behave as I predicted? (yes/no):

Downhill putt: did it behave as I predicted? (yes/no):

Breaking putt: which direction did it break?:

What I learned about reading greens:

Lesson 4: Symmetry and Course Design

Activity Log

The hole I analyzed:

Left side: what is there?:

Right side: what is there?:

Which side is more dangerous — and which would I aim for?:

Week 2 Notes and Observations

Notes

WEEK 3: MEASURING AND COMPARING

This week you measure distances, compare numbers, and start drawing graphs. These tools will serve you for your entire golf career.

Lesson 1: How Long Is the Hole?

Activity Log

Longest hole on my course (yards):

Shortest hole on my course (yards):

Difference between longest and shortest:

Round-trip walk of the longest hole (yards x 2):

Lesson 2: Measuring Your Own Shots

Activity Log

Club I measured:

Shot 1 distance (paces):

Shot 2 distance:

Shot 3 distance:

Shot 4 distance:

Shot 5 distance:

Average distance (add all 5, divide by 5):

Lesson 3: Comparing Numbers: More, Less, and Equal

Activity Log

Round 1 total score:

Round 2 total score:

Which was better (write as: score 1 < score 2 or score 1 > score 2):

My improvement goal for next round:

Lesson 4: Graphs: Drawing What We Measured

Activity Log

I drew a bar graph of my hole scores (yes/no):

I started a line graph of my round totals (yes/no):

What pattern I noticed in my bar graph:

One thing the graph showed that the numbers alone did not:

My Shot Distance Bar Graph

Draw bars showing each of your 5 shots. Label the x-axis with Shot 1-5 and the y-axis with distance (yards/paces). Mark your average with a horizontal line.

Graph Area — use the lines as a guide



My Score Progress Line Graph

Plot your total score for each round you play. Connect the dots with a line. Add rounds as they happen — this graph grows over time.

Graph Area — use the lines as a guide



Week 3 Calculations and Notes

Notes

WEEK 4: TIME AND SPEED

This week you discover that golf is shaped by time — pace of play, handicaps, and the long-term record of your golf diary.

Lesson 1: How Long Does a Round Take?

Activity Log

Time for Hole 1 (minutes):

Time for Hole 2:

Time for Hole 3:

My average time per hole:

Estimated full-round time (average x 18):

Lesson 2: Fast and Slow: Comparing Speeds

Activity Log

Time walking hole at normal pace (seconds):

Time walking same hole at brisk pace:

Seconds saved per hole:

Total minutes saved in a full round (seconds x 18 ÷ 60):

Lesson 3: Counting Backwards: Handicaps and Giving Shots

Activity Log

Player A handicap:

Player B handicap:

Shots given (difference):

Player A score:

Player B score:

Player B adjusted score (score minus shots given):

Winner:

Lesson 4: Keeping a Golf Diary: Tracking Over Time

Activity Log

My golf diary notebook color/description:

I completed my first diary entry (yes/no):

Today's date:

My round total today:

My Golf Diary — Round Log

Use this page to log your rounds over time. Date | Course | Score | Best Hole | Worst Hole | One Thing I Learned

Date	Course	Total Score	Best Hole	Worst Hole	One Thing I Learned

My Handicap Practice Calculations

Work out handicap calculations here. Show all your work.

Notes

WEEK 5: STATISTICS AND FAIRNESS

This week you learn to find averages, spot the highest and lowest values, and track the statistics that tell the story of your game.

Lesson 1: What Is an Average?

Activity Log

My 5 putt distances tested:

Putts made from each distance:

Percentage made from Distance 1 ($\frac{\text{---}}{\text{---}} \div 10 \times 100$):

Percentage made from Distance 2:

Percentage made from Distance 3:

My strongest putting distance:

Lesson 2: Most, Least, and Middle

Activity Log

My hole scores from last round (list them):

Maximum score (worst hole):

Minimum score (best hole):

Median score (middle value when sorted):

What the number line showed me about my round:

Lesson 3: Counting What Matters: Simple Stats

Activity Log

Total putts this round:

Fairways hit (Y or N for each par-4/5):

Fairway percentage ($\frac{\text{---}}{\text{---}} \div \text{---} \times 100$):

Total score over/under par:

My proudest statistic today:

Lesson 4: Fair Play and Equal Chances

Activity Log

Match play holes I won:

Match play holes my partner won:

Match play result:

My stroke play total:

Partner's stroke play total:

Did the match play winner also have the lower stroke total? (yes/no):

My Putting Percentage Chart

Draw bars for each distance you tested. Height = percentage made (0-100%). Which bar is tallest? That is your strongest putting distance.

Graph Area — use the lines as a guide

A series of 15 horizontal lines spaced evenly down the page, intended for drawing a bar chart. The lines are light gray and extend across the width of the graph area.

My Hole Score Number Line

Draw a number line from your minimum to your maximum hole score. Mark each hole's score as a dot on the line. What does the distribution look like?

Graph Area — use the lines as a guide

A series of 15 horizontal lines spaced evenly down the page, intended for drawing a number line.

Statistics Notes and Calculations

Notes

WEEK 6: MATH IN EVERY ROUND

This week you bring everything together. You are now a golf mathematician — and this is your proof.

Lesson 1: The Math All Around You

Activity Log

Example of addition or subtraction from my golf:

Example of measurement from my golf:

Example of a graph or chart I made:

Example of an average or percentage I calculated:

Example of a comparison using $>$ or $<$:

Lesson 2: My Personal Golf Statistics Report

Activity Log

My average score per round:

My average putts per round:

My fairway percentage:

My best hole (lowest vs par):

My hardest hole (highest vs par):

One strength to be proud of:

One specific thing to practice:

Lesson 3: Math Off the Course

Activity Log

What I chose to measure outside golf:

My method for collecting the data:

How long I tracked it:

One pattern or trend I discovered:

Lesson 4: You Are a Golf Mathematician

Activity Log

I completed my Golf Math Fact Book (yes/no):

The math concept I understand best now:

The math concept I want to keep improving:

How I feel about math after this course:

My Personal Golf Statistics Report — Stage 1

This is your official Stage 1 statistics summary. Fill it in using your data from the entire course.

MY PERSONAL GOLF STATISTICS REPORT	
My average score per round:	
My average putts per round:	
My fairway percentage:	
My best hole (lowest score vs. par):	
My hardest hole (highest score vs. par):	
One strength I am proud of:	
One specific thing I will practice:	
Signed: _____	Date: _____

Stage 1 Reflection

What is the most important math idea you learned through golf this stage? What question are you carrying into Stage 2?

Notes

FUTURE STAGES — SPACE FOR GROWTH

This journal grows with you.

When you begin Stage 2 — Learn & Improve — new pages will be added here. Your Stage 1 data and records will remain as a foundation to build from.

When you reach Stage 3 — Train to Compete — your statistical tracking becomes more sophisticated. Your early diary entries will be a remarkable record of where you started.

Stage 4 — Train to Win — includes original data analysis projects. The habits you build in this journal now are the habits that make Stage 4 possible.

Stage 2: Learn & Improve

Pages to be added when this stage begins

Stage 3: Train to Compete

Pages to be added when this stage begins

Stage 4: Train to Win

Pages to be added when this stage begins