The following outline is my notes from reading Daniel Coyle's fantastic book, "Little Book of Talent." <u>Buy it here</u> and its counterpart, <u>"The Talent Code: Greatness Isn't Born. It's Grown. Here's How."</u> I HIGHLY recommend both!!

Little Book of Talent 52 Tips for Improving Skill : by Daniel Coyle

Part 1: Stare, study, and don't be afraid to be stupid

- 1. Study the Saxophone Heroes : research artists and study recordings.
 - Talent begins with brief encounters that spark ignition
 - Ignition: motivation process that arises when your identity becomes linked to a long-term vision of your future
 - triggers significant amount of unconscious energy, marked by realization "that is who I want to be"
 - Create spark : I want to be like that
 - Create deep practice
 - Deep/deliberate practice: willingness to operate on the edge of your ability, aiming for targets that are just out of reach
- 2. Stare at people who are better than you/who you want to emulate
 - Visualize your future self : if he/she can do it, why can't I?
 - Bookmark a few YouTube videos and watch them before practicing or before bed
- 3. Engrave: watch/listen to/study the specific thing you want to learn so closely that you can feel it/simulate it in your mind
 - Spend 15 minutes per day engraving. Intently watch the skill being performed over and over until you have a mental picture of it
 - This can also be done with listening
 - the key is to create an intense connection, so much so that you can envision the movement / sound
- 4. Steal without apology!! Absorb and apply new information from top performers
- 5. In your practice log: write goal for the week, thoughts from the day, ideas for tomorrow. (what worked, what didn't, why?)
- 6. Be willing to be stupid
 - Don't fear making an error! You have to push boundaries that seem impossible in order to improve.
 - Mistakes are guideposts. Reach, fail, and reach again.
- 7. Create high-quality reaches by taking risks

- 8. Make shallow practice the enemy
 - Shallow Practice: marked by lack of intensity, vagueness of goals and or/unwillingness to reach beyond current abilities
 - often caused by aversion to making mistakes
 - results in vastly slowed skill acquisition and learning
- 9. Play glacially slow: listen/feel every single movement. Goal: encourage reaching, reinterpret mistakes as information you can use to make the correct move
- 10. Hard Skill: precise, consistent, one path, specialized physical pursuits (eg, scale pattern).
 - Reliable, exact, automatic
 - ABC: Always Be Consistent
- 11. Soft Skill: high-flexibility, agile, many paths to a good result
 - RRR: Read, recognize, and react
- 12. How to build hard skills: work like a careful carpenter. Careful, slow, keenly attuned to errors. Go slowly, make one simple move at a time, immediately fix errors
- 13. How to build soft skills: work like a skateboarder. Build by playing and exploring in a challenging, ever-changing environment. Aggressive, curious, experimental. Always seek ways to challenge yourself. This requires you to be clumsy for a long time
- 14. Never be comfortable with minimum effort
- 15. Be action-oriented and honest with yourself. Even if the truth stings, it is information you can use to get better
- 16. Approach problems with short, clear direction
- 17. Love practicing fundamentals!!! Nurture your core skills

Part 2: Find the sweet spot, then reach!

- 18. Sweet spot: right at the edge of ability where you learn best and fastest.
 - marked by the frequency of mistakes, but also by recognition of those mistakes
 - Three practice zones:
 - 1. comfort zone : run-throughs are made mindlessly
 - Music is at least 80% accurate (successful)
 - 2. sweet spot : engage mind, stretch ability, struggle a bit, recognize and fix mistakes - 50-80% accurate
 - 3. panic zone : drowning, panicked, nervous mess
 - less than 50% accurate
- 19. Don't measure deep practice in minutes and hours, but count reaches and successful repetitions

- 20. Chunking: take a little bit at a time (after having built a blueprint in your mind).
 - -example : Cut apart scores and practice individual parts, then piece them together. Otherwise, practice can be mindless and routine
- 21. Build one PERFECT chunk per day
- 22. Embrace struggle: no pain, no gain. Ruthlessly pursue fixing even the smallest mistakes
- 23. Don't do drills: play games!!
 - Make the most mundane activities into games -ex. count the number of times you play something perfectly, give one point per time.
 - Each day and week, try and earn more points
- 24. Teach in images, not abstract ideas:
 - ex: decrescendo like a balloon running out of air
 - ex: articulate like the reed is hot
- 25. Mistakes aren't an allergy. Don't ignore them! Look hard at it, don't wince, **take it seriously but never personally**
- 26. If someone walking by can tell what you're playing, you're practicing too fast. Practicing slow is like a magnifying glass
- 27. Close your eyes. Improve body awareness and balance: feel it (and/or mime it)
- 28. Take a nap
 - take a break from the task, then come back with fresh eyes
- 29. Learn new things by exaggerating. This also shows your limits: go too far so you can feel outer edges, then dial back
 - ex: when learning to play loud, blast. This way, you find threshold of what is loud/full versus ugly
- 30. Make positive reaches: tell yourself "center the note," not "oh dear here it comes!!"
- 31. Close the book: helps you actively learn music, versus passively playing it
- 32. Use the sandwich technique:
 - 1. make the correct move
 - 2. then incorrect move
 - 3. correct move again
- 33. Use the 3x10 rule: practice something 3 times with 10 minutes in between each rep
- 34. Give yourself lots of little tests and make targeted goals.
 - ex: perfect playing equals a sticker, cash, chocolate, etc.
 - Helps make practice fun, quick, and repeatable to help track progress
- 35. Choose a practice strategy: <u>REPS</u>
 - <u>R</u>: reaching and repeating
 - Engagement (5x in a row perfectly, restarting when a mistake is made, better than 20x)

<u>P</u>urposefulness <u>S</u>trong, speedy feedback

- 36. Stop before you're exhausted
- 37. Practice immediately after performance: helps target and fix weak points while mistakes are fresh
- 38. Watch a mental movie right before sleep :visualize perfect performance
- 39. End on a positive note: small, sweet reward at the end of practice session
 ex. play your favorite song, however ridiculous, just for fun

Part 3: Embrace repetition, cultivate grit, keep long-term goals secret

40. Embrace repetition: most powerful lever we have to improve our skills.

- Change your mindset: repetition is not a chore, but a tool
- 41. Have a blue collar mindset: work hard, whether or not you feel like it
- 42. For every hour of competition, spend 5-10 hours practicing
 - Reasons why competition slows development:
 - 1. Presence of other people discourages risk, nudging you away from sweet spot
 - 2. Competitions reduce the number of quality reps
 - 3. Pressure of competition distorts priorities, encouraging shortcuts in technique
 - 4. Competitions encourage people to judge by the score, not by how much was learned
- 43. Don't break bad habits: build NEW ones (grow myelin)
 - Improve by building new skills with simple, intense, gradually challenging workouts
 - You'll feel clumsy and awkward at first, but it's the only way new habits grow
 - for more on this, read "Power of Habit" by Charles Dugan
- 44. If you want to learn it, teach it
 - teach each other: watch, teach, learn from one another. Pair up with another student
- 45. Give a new skill a minimum of 8 weeks
 - constructing and honing neural circuitry takes time
 - resilience and grit are vital tools
 - Don't make judgements too early. Give your brain the time it needs to grow
- 46. When stuck, make a shift
 - plateaus happen when your brain reaches a level of automaticity (autopilot)
 - jostle yourself beyond it : see practice tips!
- 47. Cultivate grit
 - Grit: mix of passion, endurance, and persistence that keeps us moving forward despite obstacles
 - search online for grit survey: do you focus on long-term or move from interest to interest?

- 48. Keep your big goals secret
 - statistically, telling people big goals makes them less likely to happen
 - we need to trick our brains into keeping working
- 49. Think like a gardener, work like a carpenter
 - gardener: think patiently and without judgement
 - carpenter: work steadily and strategically, knowing that each piece connects to a larger
- -6 ways to be better teacher:
- 1. Use first 2 seconds to connect on emotional level: before you teach, you have to show you care
- 2. Short chunks of info: stand alongside, in vivid chunks, to each student
- 3. No mushy, imprecise language: not "play short", but "tongue like reed is hot"
- 4. Make scorecard for learning: make 1 point for each perfect repetition (not points for amount of practice)
- 5. Maximize reach-fulness: design environments where there are lots of small, intense games vs. lecturing. Change traditional lecture: listen to lectures at home and spend class time struggling with work
- 6. Aim to create independent learners