

12 Critical Elements of Researching & 18 Critical Elements of Active Learning

No book, just a simple set of practices and beliefs that work

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| <p>1 Research Methodology</p> <p>How you are going to approach the research programme and acts as the blueprint for everything else</p> | <p>7 Find Existing Knowledge</p> <p>Do literature and web searching to find out what knowledge already exists that you can re-use, re-analyse and build upon</p> | <p>13 How To Learn</p> <p>Focuses on how you learn, not just on what you learn. Different techniques give different results</p> | <p>19 Beginner's Mind</p> <p>An attitude of openness, eagerness, lack of preconceptions, even when studying at an advanced level</p> | <p>25 Talking and Listening</p> <p>You need to organise and reinforce what you've learnt to do this. Meaningful listening is critical</p> |
| <p>2 Measurement Objectives</p> <p>Reasons for the research, expected outcomes (the "why" of the research)</p> | <p>8 Respect Ownership</p> <p>Respecting intellectual property rights of creators and producers, quote, reference</p> | <p>14 Dreaming</p> <p>Being able to think what is possible, design a future we want, re-think</p> | <p>20 Focus</p> <p>Being able to focus on what's important—generally what's moving</p> | <p>26 Writing</p> <p>Provides a means to process new information in your own words</p> |
| <p>3 Data Collection Process</p> <p>Logistics of the research. Determining how data should be collected</p> | <p>9 Ask Good Questions</p> <p>Developing and refining search queries, check sources to get better research results</p> | <p>15 Periodic Checks</p> <p>Don't wait until the end, do regular checks to see progress and adjust</p> | <p>21 One Task at a Time</p> <p>Complete one task before starting a new one, improves performance</p> | <p>27 Active Reading</p> <p>Active learning exercises such as summary, note checks and focus</p> |
| <p>4 Recommended Survey</p> <p>Base each question on at least one of the distinct research objectives</p> | <p>10 Challenge Yourself</p> <p>Understand what you know, what you don't know and where you need to improve</p> | <p>16 Problem Solving</p> <p>Problem solving promotes analysis, synthesis and evaluation</p> | <p>22 Transition Capacity</p> <p>Multi-tasking is inefficient, but quickly switching tasks is critical</p> | <p>28 Reflecting Playback</p> <p>Connect what you've just learned and replaying to confirm truth</p> |
| <p>5 Reporting Plan</p> <p>How you plan to share the information gathered in bite size pieces</p> | <p>11 Go Beyond the Surface</p> <p>Displaying persistence by continuing to pursue information to gain a broad perspective</p> | <p>17 Make Own Meaning</p> <p>Create your own meaning from your own passive methods</p> | <p>23 Self Reflecting</p> <p>Reflecting helps you to develop your skills and review their effectiveness</p> | <p>29 Plan it</p> <p>Plan active learning to help clarify the goals and structure</p> |
| <p>6 Progress Assurance</p> <p>Write each chapter up as you complete it, get it reviewed, adjust it then move onto the next chapter</p> | <p>12 Be Patient</p> <p>Displaying emotional resilience by persisting in information searching and analysing despite challenges</p> | <p>18 Active Engagements</p> <p>Active engagement through activity, group discussion, experimentation and role-play, not passive tasks</p> | <p>24 Mindfulness</p> <p>Psychological process of bringing one's attention to experiences occurring in the present moment</p> | <p>30 Practice It</p> <p>Continue learning is only achieved through regular workshops, reading, and practice</p> |

References

- 1 <http://portma.com/research-methodology>
- 2 <https://cei.umn.edu/support-services/tutorials/what-active-learning/elements-active-learning>
- 3 <https://www.scholastic.com/teachers/articles/teaching-content/6-online-research-skills-your-students-need/>
- 4 https://www.youtube.com/watch?v=xoSJ3_dZcm8