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Module: Digital skills and Research Methods

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Introduction:

The purpose of this slide is about my research study of grits score and how it has helped students in their academic in general, this research is about grits score and academic level. I will need some grants to enable me do more research on grits and how it can help and benefit students more and the world at large. In the process of researching about grits I was able to create a survey which I dispatched among my fellow students to know everyone grits score and their academic level in general, I got few responses from my survey and that gave me more insight to do more. My research is based on both variables sources, for example, my own primary data which I got from my own survey and secondary data from my university survey. Angel Duckworth stated in one of her videos on the importance of grits and how you can put it in practical terms in pursuing your long term goal. Angela Duckworth knowledge on grits is a very big insight on students on how they can strive harder in pursuing their long term goal and I intend to improve grits by making more researches about grits. According to what has been recorded by Duckworth (2016), there is evidence that there could be smarter and grittier students with low test scores than students with high academic performance. And there is also prove to show that people with no university education may show high level of grit when compared with those with university education. So this is the reason why this

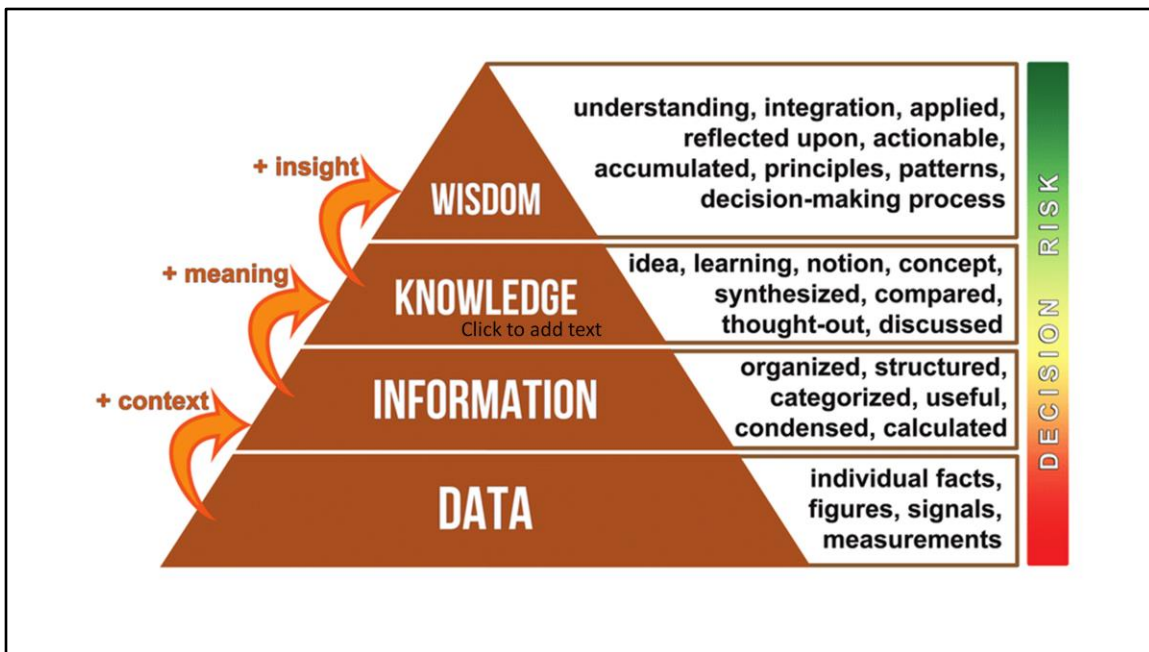
research report is good for colleges universities in general in order to find how students can become grittier. This task is focused on carrying out research on grit and academic qualification.

"Grit is living life like it's a marathon, not a sprint."

- Angela Lee Duckworth, Professor,
Psychology, Univ. of Pennsylvania



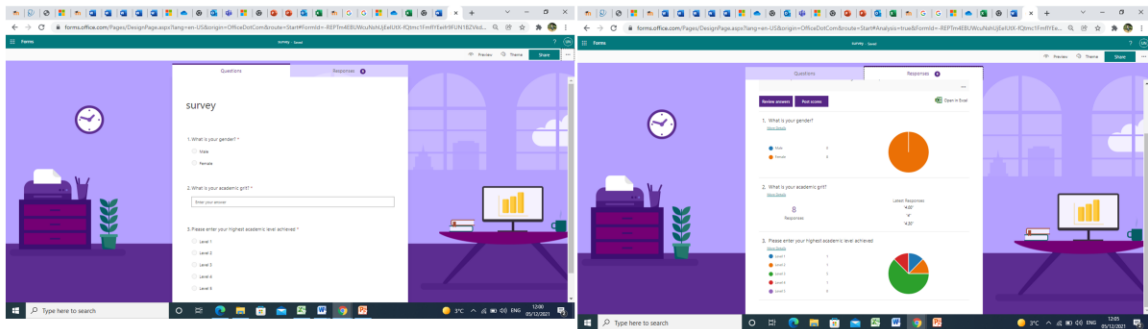
In this slide am going to talk about Angela Duckworth and make reference on her video. Angela Duckworth is an American psychologist, she is a well known author and her mission is how to equip students academically on how to study and strive harder in order for them to excel in their academic pursue. She left her high demanding paid job to teaching and that's where she did further research on grits and said is the power to passion and perseverance. She explained that grits is having stamina and sticking strongly to your future, she explained further that greedier kids are more likely to come out successfully than others. She also stated that having a growth mind-set is the key to success and major factors in building grits. Angela Duckworth source of information is a credible one because is a well known researcher on grits and her definition on grits is a reliable one. She researched on Grits Scale and she came up with the idea on how to measure grits. Angela Duckworth discovered grits to be a common factor among students to succeed. Angela Duckworth research is credible and also passes the CRAAP test because she has shown a great idea on grits and I think is someone I can trust because she is a New York best seller and having published many books is a clear indicator that she know what she's doing. She described her challenges in getting where she is today and have put too much time and efforts in her research on grits. In general I will say Angela Duckworth research approach is good and a reliable one.



In this slide am going to talk about the DIKW approach to research by Ackoff (1989). The DIKW is the research approach am using in this journey. The DIKW triangle was founded by Russell Ackoff. The DIKW is the triangle that shows or describe the DIKW hierarchy, this explains it self in the hierarchy of data – information – knowledge – wisdom. DATA is the collection of facts and figure statistically to make an analysis INFORMATION is a clean version of data when is organized KNOWLEDGE is the result of the information compiled WISDOM is the analysis of knowledge.

How we apply the DIKW approach to research , this relates to data, information, knowledge and wisdom. Anyone of it plays significant a role with its own definition. We first collect our data and transform it to information where we create our chat and use it to process our information, then derive our knowledge from the information and finally to wisdom. Wisdom is the final approach we have after processing our data and this will give us insight on our future research

This is my survey that I created using the Microsoft form and my responses. Attached below is the link



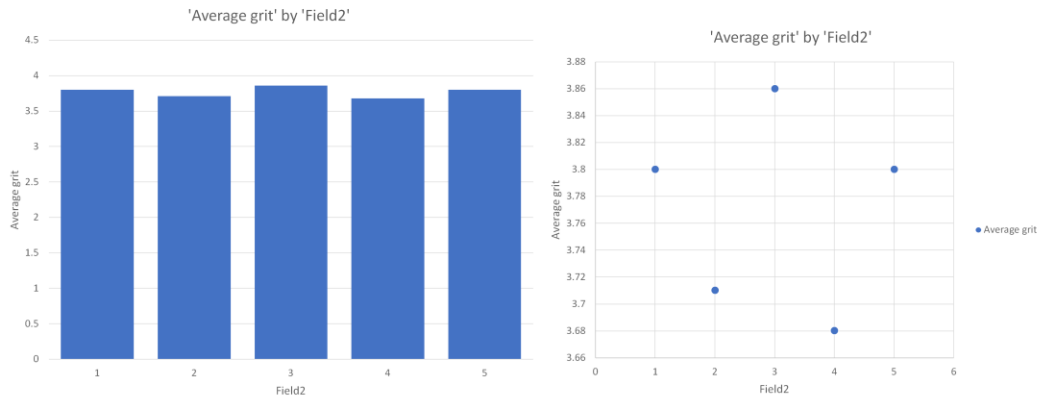
<https://forms.office.com/r/2h6SRkf023>

ID	Start time	Completion time	Email	Name	Total points	Quiz feedback	What is your Gender	Points: What is your Gender	Feedback: What is your Gender	Please enter your student's GSI score	Points: Please enter your student's GSI score	Feedback: Please enter your student's GSI score	Please enter your highest student's satisfaction level (a/b/c/d/e/f)	Points: Please enter your highest student's satisfaction level (a/b/c/d/e/f)	Feedback: Please enter your highest student's satisfaction level (a/b/c/d/e/f)
41	2/15/21 15:46:57	2/15/21 15:47:34 anonymous					Male			3.4			Level 3		
42	2/15/21 15:46:58	2/15/21 15:47:31 anonymous					Male			4.50			Level 2		
43	2/15/21 15:47:06	2/15/21 15:47:34 anonymous					Female			4.59			Level 2		
44	2/15/21 15:48:01	2/15/21 15:48:58 anonymous					Female			3.8			Level 2		
45	2/15/21 15:48:52	2/15/21 15:49:00 anonymous					Female			3.8			Level 5		
46	2/15/21 15:48:56	2/15/21 15:49:05 anonymous					Male			3.4			Level 3		
47	2/15/21 15:48:50	2/15/21 15:49:58 anonymous					Male			3.2			Level 2		
48	2/15/21 15:49:38	2/15/21 15:49:35 anonymous					Female			3.8			Level 2		
49	2/15/21 15:49:35	2/15/21 15:49:40 anonymous					Female			3.4			Level 3		
50	2/15/21 15:49:42	2/15/21 15:49:57 anonymous					Male			3.2			Level 2		
51	2/15/21 15:49:45	2/15/21 15:50:02 anonymous					Female			3.8			Level 5		
52	2/15/21 15:49:47	2/15/21 15:50:00 anonymous					Male			4.50			Level 2		
53	2/15/21 15:49:50	2/15/21 15:50:11 anonymous					Male			4.0			Level 4		
54	2/15/21 15:49:50	2/15/21 15:50:01 anonymous					Male			3.60			Level 3		
55	2/15/21 15:50:36	2/15/21 15:50:33 anonymous					Female			3.30			Level 3		
56	2/15/21 15:50:58	2/15/21 15:51:11 anonymous					Female			4.2			Level 2		
57	2/15/21 15:51:01	2/15/21 15:51:32 anonymous					Female			4.59			Level 2		
58	2/15/21 15:51:24	2/15/21 15:51:47 anonymous					Male			3.30			Level 3		
59	2/15/21 15:49:39	2/15/21 15:51:17 anonymous					Male			4.5			Level 2		

60	2/18/21 10:49:56	2/18/21 10:50:07 anonymous	Male	9	Level 6
61	2/18/21 10:50:03	2/18/21 10:50:13 anonymous	Male	4.8	Level 3
62	2/18/21 10:50:02	2/18/21 10:50:14 anonymous	Female	4.2	Level 4
63	2/18/21 10:50:04	2/18/21 10:50:17 anonymous	Female	4.3	Level 3
64	2/18/21 10:49:57	2/18/21 10:50:27 anonymous	Male	3.8	Level 2
65	2/18/21 10:50:18	2/18/21 10:50:53 anonymous	Female	2.80	Level 2
66	2/18/21 10:50:49	2/18/21 10:50:58 anonymous	Female	4.0	Level 3
67	2/18/21 10:50:54	2/18/21 10:51:02 anonymous	Male	4.5	Level 3
68	2/18/21 10:50:47	2/18/21 10:51:04 anonymous	Male	3.8	Level 3
69	2/18/21 10:49:57	2/18/21 10:51:06 anonymous	Female	entry level	Level 1
70	2/18/21 10:50:49	2/18/21 10:51:12 anonymous	Female	3.10	Level 2
71	2/18/21 10:50:56	2/18/21 10:51:45 anonymous	Male	78%	Level 3
72	2/18/21 10:51:48	2/18/21 10:51:57 anonymous	Male	0	Entry level
73	2/18/21 10:50:45	2/18/21 10:52:09 anonymous	Male	5	Level 3
74	2/18/21 10:50:07	2/18/21 11:18:54 anonymous	Female	3.90	Entry level
75	2/22/21 1:00:29	2/22/21 1:01:02 anonymous	Female	4.30	Level 4
76	2/22/21 12:18:41	2/22/21 12:19:50 anonymous	Female	3.8	Level 1
77	2/23/21 17:32:25	2/23/21 17:32:40 anonymous	Female	2.7	Level 2
78	2/23/21 17:34:09	2/23/21 17:34:32 anonymous	Male	4.80	Level 3
79	2/23/21 17:34:33	2/23/21 17:34:57 anonymous	Female	3.10	Level 1
80	2/23/21 17:34:43	2/23/21 17:35:03 anonymous	Female	3.70	Level 3
81	2/23/21 17:34:45	2/23/21 17:35:11 anonymous	Male	3.10	Level 4
82	2/23/21 17:34:24	2/23/21 17:35:13 anonymous	Male	3.10	Level 1

83	2/23/21 17:36:34	2/23/21 17:36:22	Anonymous	Male	3.88	Level 1
84	2/23/21 17:42:05	2/23/21 17:42:30	Anonymous	Female	2.80	Level 1
85	3/6/21 14:45:39	3/6/21 14:45:54	Anonymous	Male	3.6	Level 3
86	3/6/21 14:45:44	3/6/21 14:45:59	Anonymous	Female	3.75	Level 3
87	3/6/21 14:45:51	3/6/21 14:46:09	Anonymous	Female	4.49	Level 3
88	3/6/21 14:45:50	3/6/21 14:46:11	Anonymous	Male	3.2	Level 2
89	3/6/21 14:45:46	3/6/21 14:46:15	Anonymous	Female	4.2	Level 3
90	3/6/21 14:46:05	3/6/21 14:46:38	Anonymous	Male	3.2	Level 4
91	3/6/21 14:46:35	3/6/21 14:46:35	Anonymous	Female	3.8	Level 3
92	3/6/21 14:45:39	3/6/21 14:46:44	Anonymous	Male	4.2	Level 2
93	3/6/21 14:46:33	3/6/21 14:46:51	Anonymous	Female	3.98	Level 4
94	3/6/21 14:47:24	3/6/21 14:48:13	Anonymous	Male	3.4	Level 3
95	3/6/21 14:48:18	3/6/21 14:48:39	Anonymous	Female	3.4	Level 3
96	3/6/21 14:56:38	3/6/21 14:56:59	Anonymous	Female	3.8	Level 3
97	3/6/21 15:23:38	3/6/21 15:22:39	Anonymous	Male	I am not sure	Entry level

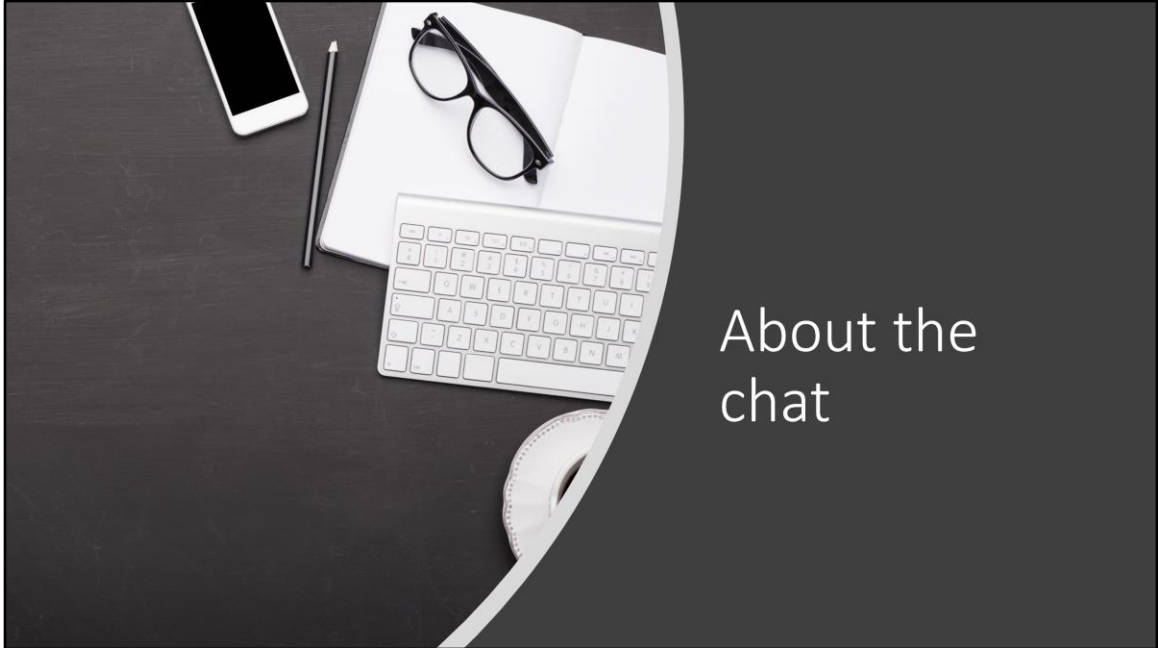
UWTSD research secondary data



Data to Information



Data in a simple term is about facts and figures. My own data was collected from my primary survey which I created through the Microsoft form. The method which I used in collecting my data is originated from Russell Ackoff (1989). We have two types of data and they are quantitative data and qualitative data, quantitative data are ordinal while qualitative data are nominal. Quantitative data is based on numbers while qualitative data is based on descriptive and cannot be measured. In other words quantitative data is countable because is numerical while qualitative data are data that is not countable. This is the data that is going to lead us to information. In my next slide am going to show and explain how to convert our data to information by producing a line chart to describe it. This is a survey created in Microsoft form and was collected from there in order to take all our data which I am going to use to produce an accurate information by adding all the numbers to get an average score. Primary data is the data you collected by yourself as the first class researcher and you use survey method in getting your information, academic level qualification guide is found on government website. The data collected here is what leads to information



The chat was created using the DIKW by Russell Ackoff (1989) research approach, the chat explained the relationship between academic level and grits score of the students in UWTSD where the students were asked their highest academic level and their academic grits. According to Angela Duckworth video she said that if you have a high grits score then you are more likely to achieve high academic level, so the university collected their own data and turn it into information. The academic levels were categorized from the entry level which is level 1, level 2 and so on. The academic levels is a qualitative data and therefore is nominal while grits score is a quantitative data and is ordinal. I transformed the data I collected into information and the data I used in this case is a secondary data because is a data I collected from the university survey. The research among the students was to compare the grits score and the UK qualification guide which is from the entry level to level 8, the UK qualification table is a guide to help convert the highest academic level into number, this was quoted by Angela Duckworth. To know more about the UK qualification guide go to the UK website on Google and type gov.uk academic level. In my next slide am going to talk about the information and how is tranformed to knowledge.



Information to knowledge

In this slide am going to talk about turning information to knowledge. The UWTSD survey that was sent out among students was the information that was turned to knowledge, it was used to ascertain the grits score among students. The survey was based using Angela Duckworth research approach on grits score which states that the higher your grits score is the higher your academic level. And that was why the UWTSD decided to do the research in order to know if Angela Duckworth research approach is reliable or not. In getting the average score from the university survey, we used the line chat because it was based on numbers, we used the line chat to get the accurate information needed from the chat. Comparing what Angela Duckworth said in regards to grits score is true and which tends to make students more grittier towards the success of their academic. Comparing my primary data and my secondary data, my primary and secondary data was based on academic level and on grits score, both research approach are good



From the Russell Ackoff (1989) research approach on DIKW which we used in processing our data to information, knowledge and wisdom. The reason for this research was to know the grits score and academic level among the students. According to Carol Dweck, she is a researcher and her research is based on how to motivate students and the reason why students succeed or not and also how to make them to be successful. She said students need to have a growth mind set in order to be successful and she also made us to understand the power of YET and always try to use the power YET in our daily activities. She also mentioned in her video the importance of praising wisely, the importance of trying to do difficult things, rewarding wisely , and changing our mind-set tp positive things that can make kids to be more successful. While Angela Duckworth research was based on grits score, how to strive and persevere towards achieving a long term goal, she also talked about the power of greediness among students and how to get them to be more greedy. From improving the greediness among students is where we derive the knowledge based on the data to information triangle by Russell Ackoff (1989)



In all research is important to put together the different methods used, so comparing all the range of information in academic level, Russell Ackoff (1989) approach is based on how to convert data to information by creating the DIKW triangle where we use Microsoft forms to collect our data, Angela Duckworth research approach on academic grits and grits score is based on how to improve students to do better in future and on how to persevere towards achieving a long term goal, while Carol Dweck research approach is based on the power of YET and having a growth mind-set on how to do better and be successful. In my research, some students have highlighted that grits and academic performance could be interrelated (Duckworth et al., 2009). It is an establish fact that grits is a good research approach for assessing students performance and also a good method in measuring students performance in colleges and universities.



- Ackerman, P. L., & Heggestad, E. D. (1997). Intelligence, personality, and interest: evidence for overlapping traits. *Psychological Bulletin*, 121, 219-245. Confusion: Description versus prediction. *Human performance*, 5(1-2), 139-155.
- Aronson, J. M., Fried, C. B., & Good, C. (2002). Reducing the effects of stereotype threat on African American college by shaping theories of intelligence. *Journal of Experimental Social Psychology*, 38(2), 113-125.
- Bahník, S., & Vranka, M. A. (2017). Growth mindset is not associated with scholastic aptitude in a large sample of university applicants. *Personality and individual Differences*, 117, 139-143
- Diener, C. I., & Dweck, C. S. (1978). An analysis of learned helplessness: Continuous changes in performance, strategy, and achievement cognitions following failure. *Journal of Personality and Social Psychology*, 36 (5), 451.
- Dweck, C. S (1999). *Self-theories: Their role in motivation, personality, and development*. Taylor and Francis/psychology Press
- Pomerantz, E. M., Kempner, S.G. (2013). Mothers daily person and process praise: implications for children's theory of intelligence and motivation. *Development Psychology*, 49, 2040-2046
- Robins R.W., Pals, J. L. (2002). Implicit self-theories in the academic domain: implications for goal orientation, attributions, affect, and self-esteem change.

Self and identity

- Weiss, M. J., Bloom, H. S., Verbitsky-Savitz, N., Gupta, H., Vigil, A. E., Cullinan, D.N. (2017). How much do the effects of education and training programs vary across sites? Evidence from past multisite randomized trials. *Journal of Research on Education Effectiveness*
- Yeager, D. S., Romero, C., Paaunesku,., Hulleman, C. S., Schneider, B., Hinojosa, C.,...Dweck, C. S. (2016). Using design thinking to improve psychological interventions: The case of the growth mindset during the transition to high school. *Journal of Educational psychology*, 108, 374-391
- Zhao. L., Heyman, G. D., Chen, L., Lee, K. (2017). Praising Young children for being smart promotes cheating. *Psychological Science*, 28, 1868-1870