Detailed Psychological Constructs v5.0-v5.2

Construct	Subconstruct (if applicable)	# of items	#	items	pre	ch1	ch2	ch3	ch4	mid1 ch4	ch5	ch6	ch7	ch8	ch9	mid2 ch9	ch10	ch11	ch12	ch13	post
							pulse checks						pulse checks						pulse checks		
Expectancy	(pulse check)	1		I am confident in what I have learned so far in this course.			exp_pulse2	exp_pulse3	exp_pulse4		exp_pulse5	exp_pulse6	exp_pulse7	exp_pulse8	exp_pulse9		exp_pulse10	exp_pulse11	exp_pulse12	exp_pulse13	
Utility Value	(pulse check)	1		I think what I have learned so far in this course is useful.			uv_pulse2	uv_pulse3	uv_pulse4		uv_pulse5	uv_pulse6	uv_pulse7	uv_pulse8	uv_pulse9		uv_pulse10	uv_pulse11	uv_pulse12	uv_pulse13	
Intrinsic Value	(pulse check)	1		I think this class is interesting.			iv_pulse2	iv_pulse3	iv_pulse4		iv_pulse5	iv_pulse6	iv_pulse7	iv_pulse8	iv_pulse9		iv_pulse10	iv_pulse11	iv_pulse12	iv_pulse13	
Cost	(pulse check)	1		I am unable to put in the time needed to do well in this course.			cost_pulse2	cost_pulse3	cost_pulse4		cost_pulse5	cost_pulse6	cost_pulse7	cost_pulse8	cost_pulse9		cost_pulse10	cost_pulse11	cost_pulse12	cost_pulse13	
Expectancy		2	1	I am confident i can learn the material in this course.	exp1_1					exp1_2						exp1_3					exp1_4
			2	I expect to do well in this class.	exp2_1					exp2_2						exp2_3					exp2_4
Values	Utility Value (for Future)	5	1	What I'm going to learn in this class will be useful in the future (pre)/What I am learning in this class will be useful in the future (mid & post)	uv_f1_1					uv_f1_2						uv_f1_3					uv_f1_4
	Utility Value (for Job)		2	Good grades in this class will improve my job and career chances.	uv_j1_1					uv_j1_2						uv_j1_3					uv_j1_4
	Utility Value (for Daily Life)		3	What I'm going to learn in this class will be relevant to my everyday life (pre)/ What we learn in this class is relevant to my everyday life (mid/post)	uv_d1_1					uv_d1_2						uv_d1_3					uv_d1_4
	Intrinsic value		4	I think this class will be interesting (pre) I think this class is interesting (mid/post)	iv1_1					iv1_2						iv1_3					iv1_4
	Intrinsic value		5	I will like this class (pre) I like this class (mid/post)	iv2_1					iv2_2						iv2_3					iv2_4
Cost		2	1	I think I will have to give up too much to do well in this class (pre); I have to give up too much to do well in this course (mid/post)	cost2_1					cost2_2						cost2_3					cost2_4
			2	I think this course is going to be too stressful for me (pre); This course is too stressful for me (mid/post).	cost3_1					cost3_2						cost3_3					cost3_4
Programming Sentiment		1	1	PRE: In this course, you will use r (a programming language) to analyze data. how do you feel about this? POST: In this class, you used R to analyze data. How do you feel about this now?	sent_pro_1																sent_pro_4
Programming Anxiety		4	1	PRE: I think that learning R programming will be enjoyable. POST: I think that learning R programming is enjoyable.	r_joy_1																r_joy_4
			2	I welcome the possibility of having a job in the future that involves R programming.	r_job_1																r_job_4
			3	PRE: I believe that learning R programming will be difficult. POST: I believe that learning R programming is difficult.	r_difficult_1																r_difficult_4
			4	I am anxious/nervous about learning R programming.	r_anx_1																r_anx_4
Confidence	Confidence in R	1	1	How confident are you in your R skills?	conf_1					conf_2						conf_3					conf_4
Anxiety		1	1	In general, i tend to feel very anxious about mathematics.	anx_ma_1					anx_ma_2						anx_ma_3					anx_ma_4
Course concerns		1	1	When I think about this course, I'm concerned that...(write not at all if you so choose)	con_course																
Couse challenges		1	1	What, if anything, made it hard to succeed in this class?																	obst_4
Behavioral intention	Future interest	3	1	I look forward to learning more about math, statistics, or data science.	f1_1																f1_4
	Future interest		2	I want to take more math, statistics, or data science classes in the future.	f2_1																f2_4
	Future interest		3	I would be interested in having a job someday that involves things like math, science, statistics, or data science.	f3_1																f3_4
STEM Identity	STEM identity	1	1	I see myself as a statisics person.	identity_1																identity_4
Belonging	Class belonging	2	1	I matter as a student in this class	blc1_1																blc1_4
	Class belonging		2	I belong in this class	blc2_1																blc2_4
Goal Orientation	Performance	2	1	To be honest, it is very important for me to do well compared to others in this class.	goal1_1																goal1_4
	Mastery		2	Honestly, the most important thing for me in this class is to understand the content as thoroughly as possible.	goal2_1																goal2_4

Category	Subconstruct	#	#	Item	T1	T2	T3	T4
Course perceptions	**Memorization**	2	1	I expect that this course will require a lot of memorization (pre); This course required a lot of memorization (post)	mem_1			mem_4
	Deep Understanding		2	this course required deep thinking and understanding of concepts.				unders_4
Course advice		1	1	What advice would you give to future students who want to do well in this course?				adv_4
Student mindset beliefs	**Math mindset**	2	1	You can learn new things, but you can't really change your basic math ability (fixed math mindset - reverse code for growth mindset)	ms1_1	ms1_2	ms1_3	ms1_4
	Math mindset		2	My math ability is something about me that I can't change very much (fixed math mindset - reverse code for growth mindset)	ms2_1	ms2_2	ms2_3	ms2_4
Perception of instructor	**Instructor Value**	4	1	My instructor demonstrates how what we are learning is useful.		tv1_2	tv1_3	
	Instructor Value		2	My instructor explains how what we are learning may be important.		tv2_2	tv2_3	
	Instructor Mindset		3	My instructor seems to believe that students have a certain amount of intelligence, and they really can't do much to change it (reverse code)		im1_2		im1_4
	Instructor Mindset		4	My instructor seems to believe that students can learn new things, but they can't really change their basic intelligence (reverse code)		im2_2		im2_4