CHAPTER 14

GUIDE FOR CONSTRUCTING SELF-EFFICACY SCALES

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Perceived self-efficacy is concerned with people's beliefs in their capabilities to produce given attainments (Bandura, 1997). One cannot be all things, which would require mastery of every realm of human life. People differ in the areas in which they cultivate their efficacy and in the levels to which they develop it even within their given pursuits. For example, a business executive may have a high sense of organizational efficacy but low parenting efficacy. Thus, the efficacy belief system is not a global trait but a differentiated set of self-beliefs linked to distinct realms of functioning. Multidomain measures reveal the patterning and degree of generality of people's sense of personal efficacy.

There is no all-purpose measure of perceived self-efficacy. The "one measure fits all" approach usually has limited explanatory and predictive value because most of the items in an all-purpose test may have little or no relevance to the domain of functioning. Moreover, in an effort to serve all purposes, items in such a measure are usually cast in general terms divorced from the situational demands and circumstances. This leaves much ambiguity about exactly what is being measured or the level of task and situational demands that must be managed. Scales of perceived self-

efficacy must be tailored to the particular domain of functioning that is the object of interest.

Although efficacy beliefs are multifaceted, social cognitive theory identifies several conditions under which they may co-vary even across distinct domains of functioning (Bandura, 1997). When different spheres of activity are governed by similar sub-skills there is some interdomain relation in perceived efficacy. Proficient performance is partly guided by higher-order self-regulatory skills. These include generic skills for diagnosing task demands, constructing and evaluating alternative courses of action, setting proximal goals to guide one's efforts, and creating self-incentives to sustain engagement in taxing activities and to manage stress and debilitating intrusive thoughts. Generic self-management strategies developed in one realm of activity are serviceable in other activity domains with resulting co-variation in perceived efficacy among them.

Co-development is still another correlative process. Even if different activity domains are not sub-served by common sub-skills, the same perceived efficacy can occur if development of competencies is socially structured so that skills in dissimilar domains are developed together. For example, students are likely to develop similarly high perceived self-efficacy in dissimilar academic subjects, such as language and mathematics in superior schools, but similarly low perceived efficacy in ineffective schools, which do not promote much academic learning in any subject matter.

And finally, powerful mastery experiences that provide striking testimony to one's capacity to effect personal changes can produce a transformational restructuring of efficacy beliefs that is manifested across diverse realms of functioning. Extraordinary personal feats serve as transforming experiences.

The conceptual and methodological issues regarding the nature and structure of self-efficacy scales are discussed in detail in Chapter 2 in the book *Self-Efficacy: The Exercise of Control* and will not be reviewed here. The present guide for constructing self-efficacy scales supplements that conceptual and empirical analysis.

Content Validity

Efficacy items should accurately reflect the construct. Self-efficacy is concerned with perceived capability. The items should be phrased in terms of *can do* rather than *will do*. *Can* is a judgment of capability; *will* is a statement of intention. Perceived self-efficacy is a major determi-

nant of intention, but the two constructs are conceptually and empirically separable.

Perceived self-efficacy should also be distinguished from other constructs such as self-esteem, locus of control, and outcome expectancies. Perceived efficacy is a judgment of capability; self-esteem is a judgment of selfworth. They are entirely different phenomena. Locus of control is concerned, not with perceived capability, but with belief about outcome contingencies—whether outcomes are determined by one's actions or by forces outside one's control. High locus of control does not necessarily signify a sense of enablement and well-being. For example, students may believe that high academic grades are entirely dependent on their performance (high locus of control) but feel despondent because they believe they lack the efficacy to produce those superior academic performances.

Another important distinction concerns performance outcome expectations. Perceived self-efficacy is a judgment of capability to execute given types of performances; outcome expectations are judgments about the outcomes that are likely to flow from such performances. Outcome expectations take three different forms (Bandura, 1986). They include the positive and negative physical, social, and self-evaluative outcomes. Within each form, the positive expectations serve as incentives, the negative ones as disincentives. The outcomes people anticipate depend largely on their judgments of how well they will be able to perform in given situations.

Perceived efficacy plays a key role in human functioning because it affects behavior not only directly, but by its impact on other determinants such as goals and aspirations, outcome expectations, affective proclivities, and perception of impediments and opportunities in the social environment (Bandura, 1995, 1997). Efficacy beliefs influence whether people think erratically or strategically, optimistically or pessimistically. They also influence the courses of action people choose to pursue, the challenges and goals they set for themselves and their commitment to them, how much effort they put forth in given endeavors, the outcomes they expect their efforts to produce, how long they persevere in the face of obstacles, their resilience to adversity, the quality of their emotional life and how much stress and depression they experience in coping with taxing environmental demands, and the life choices they make and the accomplishments they realize. Meta-analyses across different spheres of functioning confirm the influential role of perceived self-efficacy in human self-development, adaptation, and change (Boyer et al., 2000; Holden, 1991; Holden, Moncher, Schinke, & Barker, 1990; Moritz, Feltz, Fahrbach, & Mack, 2000; Multon, Brown, & Lent, 1991; Sadri & Robertson, 1993; Stajkovic & Luthans, 1998).

Domain Specification and Conceptual Analysis of Self-Efficacy Multicausality

The construction of sound efficacy scales relies on a good conceptual analysis of the relevant domain of functioning. Knowledge of the activity domain specifies which aspects of personal efficacy should be measured. Consider the self-management of weight as an example. Weight is determined by what people eat, by their level of exercise, which burns calories and can raise the body's metabolism, and by genetic factors that regulate metabolic processes. A comprehensive self-efficacy assessment would be linked to the behavioral factors over which people can exercise some control. This would include perceived capability to regulate the foods that are purchased, to exercise control over eating habits, and to adopt and stick to an increased level of physical activity. Behavior is better predicted by people's beliefs in their capabilities to do whatever is needed to succeed than by their beliefs in only one aspect of self-efficacy relevant to the domain. In the present example, perceived self-efficacy will account for more of the variation in weight if the assessment includes perceived capability to regulate food purchases, eating habits, and physical exercise than if it is confined solely to eating habits.

The preceding example further illustrates how different facets of perceived efficacy operating within a domain may weigh in more heavily in different phases of a given pursuit. Perceived efficacy to purchase healthful foods that make it easier to manage one's weight accounts for daily caloric and fat intake prior to treatment when self-regulatory skills are infirm. After self-regulatory skills are developed, however, perceived efficacy to curb overeating maintains reduced caloric and fat intake, and perceived efficacy to manage what one brings home fades in importance. Apparently, savory foods are not a problem as long as one can eat them in moderation. If negative affect triggers overeating, assessment of perceived efficacy for affect regulation will explain additional variance in self-management of weight. Thus, multifaceted efficacy scales not only have predictive utility but provide insights into the dynamics of self-management of behavior.

If self-efficacy scales are targeted to factors that, in fact, have little or no impact on the domain of functioning, such research cannot yield a predictive relation. If, for example, relaxation does not affect drug use, then perceived self-efficacy to relax will be unrelated to consumption of drugs because the causal theory is faulty. Under these circumstances, negative findings will reflect faulty theory rather than limitations of self-efficacy beliefs. In short, self-efficacy scales must be tailored to activity domains and assess the multifaceted ways in which efficacy beliefs operate within the selected activity domain. The efficacy scales must be linked to

factors that, in fact, determine quality of functioning in the domain of interest.

Gradations of Challenge

Perceived efficacy should be measured against levels of task demands that represent gradations of challenges or impediments to successful performance. Self-efficacy appraisals reflect the level of difficulty individuals believe they can surmount. If there are no obstacles to overcome, the activity is easily performable and everyone is highly efficacious.

The events over which personal influence is exercised can vary widely. It may entail regulating one's own motivation, thought processes, performance level, emotional states, or altering environmental conditions. The content domain should correspond to the area of functioning one seeks to manage. The nature of the challenges against which personal efficacy is judged will vary depending on the sphere of activity. Challenges may be graded in terms of level of ingenuity, exertion, accuracy, productivity, threat, or self-regulation required, just to mention a few dimensions of performance demands.

Many areas of functioning are primarily concerned with self-regulatory efficacy to guide and motivate oneself to get things done that one knows how to do. In such instances, self-regulation is the capability of interest. The issue is not whether one can do the activities occasionally, but whether one has the efficacy to get oneself to do them regularly in the face of different types of dissuading conditions. For example, in the measurement of perceived self-efficacy to stick to a health-promoting exercise routine, individuals judge how well they can get themselves to exercise regularly under various impediments, such as when they are under pressure from work, are tired or depressed, are in foul weather, or when they have other commitments or more interesting things to do (see Appendix).

Constructing scales to assess self-regulatory efficacy requires preliminary work to identify the forms the challenges and impediments take. People are asked in open-ended interviews and pilot questionnaires to describe the things that make it hard for them to perform the required activities regularly. The identified challenges or impediments are built into the efficacy items. In the formal scale, participants judge their ability to meet the challenges or to surmount the various impediments. Sufficient gradations of difficulties should be built into the efficacy items to avoid ceiling effects.

Response Scale

In the standard methodology for measuring self-efficacy beliefs, individuals are presented with items portraying different levels of task demands, and they rate the strength of their belief in their ability to execute the requisite activities. They record the strength of their efficacy beliefs on a 100-point scale, ranging in 10-unit intervals from 0 ("Cannot do"); through intermediate degrees of assurance, 50 ("Moderately certain can do"); to complete assurance, 100 ("Highly certain can do"). A simpler response format retains the same scale structure and descriptors but uses single unit intervals ranging from 0 to 10. The instructions and standard response format are given below.

The attached form lists different activities. In the column **Confidence**, rate how confident you are that you can do them **as of now**. Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot				M	oderat	ely				Highly
do at all				cert	ain cai	n do			cer	tain can do

The sample efficacy scales in the Appendix illustrate some variations in format depending on the age of the respondents and the sphere of efficacy being assessed.

Scales that use only a few steps should be avoided because they are less sensitive and less reliable. People usually avoid the extreme positions so a scale with only a few steps may, in actual use, shrink to one or two points. Including too few steps loses differentiating information because people who use the same response category may differ if intermediate steps were included. Thus an efficacy scale with the 0-100 response format is a stronger predictor of performance than one with a 5-interval scale (Pajares, Hartley, & Valiante, 2001). In sensitive measures, the responses are distributed over a good part of the range of alternatives.

Efficacy scales are unipolar, ranging from 0 to a maximum strength. They do not include negative numbers because a judgment of complete incapability (0) has no lower gradations. Bipolar scales with negative gradations below the zero point that one cannot perform a given level of activity do not make sense.

Preliminary instructions should establish the appropriate mindset that participants should have when rating the strength of belief in their personal capability. People are asked to judge their operative capabilities as of now, not their potential capabilities or their expected future capabili-

ties. It is easy for people to imagine themselves to be fully efficacious in some hypothetical future. However, in the case of perceived self-regulatory efficacy to maintain a given level of functioning over time, people judge their efficacy that they can perform the activity regularly over designated periods of time. For example, recovered alcoholics would judge their perceived capability to refrain from drinking over specified time intervals.

A practice item, such as the capability to lift objects of increasing weight, helps to familiarize respondents with the scale gauging strength of efficacy belief and reveals any misunderstanding about how to use it. With young children, one can use a physical performance task to familiarize them with the scale for rating the strength of their perceived efficacy. For example, one can place markers on the floor at progressively farther distances. Children are asked to rate their degree of confidence that they can jump to each of the distances. They do so by selecting a number from the scale with the following descriptors (e.g., cannot do it, not too sure, pretty sure, certain I can do it). They perform the task after each rating. In this concrete way, children learn how to use numerical scale values to convey the strength of their perceived self-efficacy.

With very young children one may have to use pictorial rather than verbal descriptors of strength of self-efficacy belief. For example, circles with progressively larger size could be used with explanation that the size gradations represent increasing confidence that they can perform the tasks. Happy or sad faces are to be avoided. Children may misread such a scale as measuring their happiness or sadness rather than how confident they are that they can perform given tasks.

Efficacy beliefs differ in generality, strength, and level. People may judge themselves efficacious across a wide range of activity domains or only in certain domains of functioning. Generality can vary across types of activities, the modalities in which capabilities are expressed (e.g., behavioral, cognitive, affective), situational variations, and the types of individuals toward whom the behavior is directed. Assessments linked to activity domains, situational contexts, and social aspects reveal the patterning and degree of generality of people's beliefs in their efficacy. Within the network of efficacy beliefs, some are of greater import than others. The most fundamental self-beliefs are those around which people structure their lives.

In addition, efficacy beliefs vary in strength. Weak efficacy beliefs are easily negated by disconfirming experiences, whereas people who have a tenacious belief in their capabilities will persevere in their efforts despite innumerable difficulties and obstacles. They are not easily dissuaded by adversity. Strength of perceived self-efficacy is not necessarily linearly related to choice behavior (Bandura, 1977). A certain threshold of self-assurance is needed to attempt a course of action, but higher strengths of self-efficacy will result in the same attempt. The stronger the sense of personal efficacy, however, the greater the perseverance and the higher the likelihood that the chosen activity will be performed successfully.

One could also designate self-efficacy beliefs in terms of level, that is, the number of activities individuals judge themselves capable of performing above a selected cutoff value of efficacy strength. However, converting a continuous measure of efficacy strength into a dichotomous measure on the basis of a minimal cutoff strength value loses predictive information. If a low cutoff value is selected, a relatively low sense of efficacy is treated the same as complete self-assurance. Conversely, if the cutoff criterion is set at a high level, a moderately strong sense of capability gets defined as a lack of efficacy. Either too low or too high cutoffs can produce artifactual discrepancies between perceived self-efficacy and performance.

A more refined microanalysis of congruence is provided by computing the probability of successful performance as a function of the strength of perceived self-efficacy (Bandura, 1977). This microlevel analysis retains the predictive value of variations in strength of efficacy beliefs. Because efficacy strength incorporates efficacy level as well as gradations of certainty above any threshold value, efficacy strength is generally a more sensitive and informative measure than efficacy level.

Minimizing Response Biases

The standard procedure for measuring beliefs of personal efficacy includes a number of safeguards to minimize any potential motivational effects of self-assessment. These safeguards are built into the instructions and the mode of administration. Self-efficacy judgments are recorded privately without personal identification to reduce social evaluative concerns. The self-efficacy scale is identified by code number rather than by name. Respondents are informed that their responses will remain confidential and be used only with number codes by the research staff. If the scale is labeled, use a nondescript title such as "Appraisal Inventory" rather than Self-Efficacy. To encourage frank answers, explain to the respondents the importance of their contribution to the research. Inform them that the knowledge it provides will increase understanding and guide the development of programs designed to help people to manage the life situations with which they have to cope.

People make multiple judgments of their efficacy across the full range of task demands within the activity domain rather than making each judgment immediately before each performance. The assessments of perceived efficacy and behavior are conducted in different settings and by different assessors to remove any possible carryover of social influence from assessment to the performance setting.

Does rating one's self-efficacy affect one's behavior? If merely recording a level of self-efficacy made it so, personal change would be trivially easy. People would rate themselves into grand accomplishments. Nevertheless, the question arises as to whether making efficacy judgments may contribute some motivational inducement to improve the match between self-judgment and performance. Numerous tests for reactive effects of self-efficacy assessment have been conducted (Bandura, 1997). The findings show that people's level of motivation, affective reactions, and performance attainments are the same regardless of whether they do or do not make prior self-efficacy judgments. The nonreactivity of self-efficacy assessment is corroborated for diverse activities, including coping with threats, self-regulation of motivation, pain tolerance, cognitive attainments, recovery of functioning after coronary surgery, and exercise adherence. Nor are efficacy judgments influenced by a responding bias to appear socially desirable, regardless of whether the domain of activity involves sexual behavior, alcohol consumption, smoking, dietary practices, or self-management of diabetes.

Private recording of efficacy judgments may reduce evaluative concerns and consistency expectations, but it could be argued that it does not eliminate them entirely. To the extent that people assume their private recordings will be evaluated at a later time, they may retain some evaluative concerns. However, evidence shows that making efficacy judgments does not increase congruence between perceived efficacy and behavior under either high or low social demand for consistency (Telch, Bandura, Vinciguerra, Agras, & Stout, 1982).

Item Analysis in Scale Construction

Pretest the items. Discard those that are ambiguous or rewrite them. Eliminate items where most people are checking the same response point. Such items do not differentiate among respondents. Items on which the vast majority of respondents check the maximum efficacy category lack sufficient difficulty, challenge, or impediments to distinguish levels of efficacy among respondents. Increase the difficulty level by raising the level of challenge in the item.

The items tapping the same domain of efficacy should be correlated with each other and with the total score. Factor analyses verify the homogeneity of the items. Different domains of efficacy require different sets of scales with item homogeneity within each of the domain-relevant scales.

Reliability places an upper limit on the maximum possible correlation that can be obtained between variables. Internal consistency reliabilities should be computed using Cronbach's alpha. If the reliability coefficients are low, discard or rewrite the items with low correlates. Including only a few items will limit the alpha level. Increase the number of items.

Assessment of Perceived Collective Efficacy

The theorizing and research on human agency has centered almost exclusively on personal influence exercised individually. People do not live their lives autonomously. Many of the outcomes they seek are achievable only through interdependent efforts. Hence, they have to work together to secure what they cannot accomplish on their own. Social cognitive theory extends the conception of human agency to collective agency. People's shared beliefs in their collective power to produce desired results is a key ingredient of collective agency (Bandura, 2000).

A group's attainments are the product not only of shared knowledge and skills of the different members, but also of the interactive, coordinative, and synergistic dynamics of their transactions. Therefore, perceived collective efficacy is not simply the sum of the efficacy beliefs of individual members. Rather, it is an emergent group-level property. A group operates through the behavior of its members. It is people acting coordinatively on a shared belief, not a disembodied group mind that is doing the cognizing, aspiring, motivating, and regulating. There is no emergent entity that operates independently of the beliefs and actions of the individuals who make up a social system. Although beliefs of collective efficacy include emergent aspects, they serve functions similar to those of personal efficacy beliefs and operate through similar processes (Bandura, 1997).

There are two main approaches to the measurement of a group's perceived efficacy. The first method aggregates the individual members' appraisals of their personal capabilities to execute the particular functions they perform in the group. The second method aggregates members' appraisals of their group's capability operating as a whole. The latter holistic appraisal encompasses the coordinative and interactive aspects operating within groups.

Some researchers advocate that perceived collective efficacy be measured by having a group arrive at a single judgment of the group's capability (Guzzo, Yost, Campbell, & Shea, 1993). The discussion approach is methodologically problematic, however. Constructing unanimity about a

group's efficacy via group discussion is subject to the distorting vagaries of social persuasion by members who command power and other types of pressures for social conformity. Indeed, a group's collective judgment of its efficacy reflects mainly the personal judgments of higher status members rather than those of subordinate members (Earley, 1999). The discussion approach is likely to produce reactive effects in that persuasory efforts to reach consensus will alter members' views. Assessments that operate through social influence should be avoided. A method of measurement should not change what it is measuring. Moreover, no social system is a monolith with a unitary sense of efficacy (Bandura, 1997). A forced consensus to a single judgment masks the variability in efficacy beliefs among the various factions within a social system and misrepresents their beliefs.

The two informative indices of perceived collective efficacy differ in the relative weight given to individual factors and social interactive ones, but they are not as distinct as they might appear. Being socially situated, and often interdependently so, individuals' judgments of their personal efficacy are not detached from the other members' enabling or impeding activities. Rather, a judgment of individual efficacy inevitably embodies the coordinative and interactive group dynamics. Judgment of efficacy in a group endeavor is very much a socially embedded one, not an individualistic, socially disembodied one. To take an athletic example, in judging the collective efficacy of their football team, the quarterback obviously considers the quality of his offensive line, the fleetness and blocking capabilities of his running backs, the adeptness of his receivers, and how well they work together as an offensive unit. Conversely, in judging the efficacy of their team, members certainly consider how well key teammates can execute their roles. Players on a basketball team would judge their team efficacy quite differently depending on whether or not a key superstar was in the lineup.

Self-efficacy theory distinguishes between the source of the data (i.e., individual) and the level of the phenomenon being measured (i.e., personal efficacy or group efficacy). As noted earlier, there is no group mind that believes. Perceived collective efficacy resides in the minds of members as beliefs in their group's capability. All too often the source of the judgment is misconstrued as the level of the measured phenomenon. The level is concerned with whether the efficacy of an individual or the group is being judged.

Given the interdependent nature of the appraisal process, linking efficacy measured at the individual level to performance at the group level does not necessarily represent a cross-level relation. The two indexes of collective efficacy are at least moderately correlated and predictive of group performance. The fact that appraisals of group efficacy embody members' dependence on one another has important bearing on gauging emergent properties. It is commonly assumed that an emergent property is operative if differences between groups remain after statistical methods are used to control variation in characteristics of individuals within the groups. The analytic logic is fine, but the results of such statistical controls can be quite misleading. Because judgments of personal efficacy take into consideration the unique dynamics of a group, individual-level controls can inadvertently remove most of the emergent group properties.

The relative predictiveness of the two indexes of collective efficacy will depend largely on the degree of interdependent effort needed to achieve desired results. For example, the accomplishments of a gymnastics team are the sum of successes achieved independently by the gymnasts, whereas the accomplishments of a soccer team are the product of players working intricately together. Any weak link, or a breakdown in a subsystem, can have ruinous effects on a soccer team despite an otherwise high level of talent. The aggregated holistic index is most suitable for performance outcomes achievable only by adept teamwork. Under low system interdependence, members may inspire, motivate, and support each other, but the group outcome is the sum of the attainments produced individually rather than by the members working together. Aggregated personal efficacies are well suited to measure perceived efficacy for the latter types of endeavors.

A growing body of research attests to the impact of perceived collective efficacy on group functioning (Gully, Incalcaterra, Joshi, & Beaubien, 2002; Stajkovic & Lee, 2001). Some of these studies have assessed the motivational and behavioral effects of perceived collective efficacy using experimental manipulations to instill differential levels of perceived collective efficacy. Other investigations have examined the effects of naturally developed beliefs of collective efficacy. The latter studies have analyzed diverse social systems, including educational systems, business organizations, athletic teams, combat units, urban neighborhoods, and political systems.

The findings taken as a whole show that the higher the perceived collective efficacy, the higher the groups' motivational investment in their undertakings, the stronger their staying power in the face of impediments and setbacks, and the greater their performance accomplishments.

Predictive and Construct Validation

As noted earlier, self-efficacy scales should have face validity. They should measure what they purport to measure, that is, perceived capability to produce given attainments. But they should also have discriminative

and predictive validity. The construct of self-efficacy is embedded in a theory that explains a network of relationships among various factors. Construct validation is a process of hypothesis testing. People who score high on perceived self-efficacy should differ in distinct ways from those who score low in ways specified by the theory. Verifications of predicted effects provide support for the construct's validity.

Perceived self-efficacy can have diverse effects on motivation, thought, affect, and action, so there are many verifiable consequences that can be tested. There is no single validity coefficient. Construct validation is an ongoing process in which both the validity of the postulated causal structure in the conceptual scheme and the self-efficacy measures are being assessed.

Conclusion

Scientific advances are greatly accelerated by methodological development of assessment tools for key determinants of human functioning. Quality of assessment provides the basis for stringent empirical tests of theory. Given the centrality of efficacy beliefs in people's lives, sound assessment of this factor is crucial to understanding and predicting human behavior. Human behavior is richly contextualized and conditionally manifested. Self-efficacy assessment tailored to domains of functioning and task demands identify patterns of strengths and limitations in perceived capability. This type of refined assessment not only increases predictiveness, but provides guidelines for tailoring programs to individual needs.

The value of a psychological theory is judged not only by its explanatory and predictive power, but by its operational power to effect change. Perceived self-efficacy is embedded in a broader theory of human agency that specifies the sources of self-efficacy beliefs and identifies the processes through which they produce their diverse effects (Bandura, 1997, 2001). Knowing how to build a sense of efficacy and how it works provides further guidelines for structuring experiences that enable people to realize desired personal and social changes.

APPENDIX

Practice Rating

To familiarize yourself with the rating form, please complete this practice item first.

If you were asked to lift objects of different weights **right now**, how certain are you that you can lift each of the weights described below?

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot				N	Moderate	ely			Highly	certain
do at all					can do	•				can do

Ph	ysica	l Stre	ngth	Confidence (0-100)
Lift a	a 10 p	ound	object	
"	20	"	"	
"	50	"	"	
"	80	"	"	
"	100	"	"	
"	150	"	"	
"	200	"	"	
,,	300	"	"	
	300			

70

60

80

90

100

Self-Efficacy to Regulate Exercise

0

10

20

30

40

A number of situations are described below that can make it hard to stick to an exercise routine. Please rate in each of the blanks in the column how certain you are that you can get yourself to perform your exercise routine regularly (three or more times a week).

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

50

Cannot	Moderately	Highly certain
do at all	can do	can do
		Confidence (0-100)
When I am feeling tire	d	
When I am feeling und	ler pressure from work	
During bad weather		
After recovering from a	an injury that caused me to stop exercising	
During or after experie	encing personal problems	
When I am feeling dep	pressed	
When I am feeling anx	ious	
After recovering from a	an illness that caused me to stop exercising	
When I feel physical di	scomfort when I exercise	
After a vacation		
When I have too much	work to do at home	
When visitors are prese	ent	
When there are other i	nteresting things to do	
If I don't reach my exe	rcise goals	
Without support from	my family or friends	
During a vacation		
When I have other tim	e commitments	
After experiencing fan	nily problems	

Self-Efficacy to Regulate Eating Habits

A number of situations are described below that can make it hard to stick to a diet that is low in fat. Please rate in each of the blanks on the column how certain you are that you can stick to a healthy diet on **a regular basis**.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

U	10	20	30	40	50	00	70	80	90	100
Cannot do at all					Moderate can do	ly			Highly	certair can do
										fidence 0-100)
While wa	tching t	elevisio	n							
Feeling 1	estless c	or bored								
During l	ioliday t	imes								
Feeling ι	ipset or	tense ov	er job-re	lated n	natters					
Eating a	t a frien	d's hous	e for din	ner						
Preparin	g meals	for othe	ers							
Eating a	a restai	urant ale	one							
When an	gry or a	nnoyed								
When ve	ry hung	ry								
When de	pressed									
When yo	u want t	to sit bac	ck and er	ijoy foc	od					
When lo	ts of hig	h fat foo	od is avai	lable in	the hous	e				
Feel like	celebrat	ing with	others							
Someone	e offers	you higł	ı fat food	ls						
Feel a stı	ong urg	e to eat	foods hi	gh in fa	at that you	ı like				
			ng visito							
During v	acations	S								
Eating o	ut with o	others w	hen they	are or	dering hig	gh fat me	eals			
_					t food is s					
At recrea	itional a	nd spor	t events v	vhere h	igh fat fa	st foods	are serve	:d		
When vis	siting a o	city and	needing	a quicl	k meal					
	_		ı fat item	-						
When vis	siting a o	city and	wanting	to expe	erience th	e local f	ood and			
	ırants	,		•						
Holidays	and cel	lebration	ns where	high fa	it foods ai	e served				
When up	set over	family	matters							
When yo	u want s	some vai	riety in y	our die	t					
			ı a restau							
Others b	ring or	serve hi	gh fat foo	ods						
	_		re your o		als					
					ds in the s	superma	rket			

Driving Self-Efficacy

Please rate how certain you are that you can drive in the situations described below.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot				N	Moderate	ely			Highly	certain
do at all					can do					can do

	Confidence (0-100)
Drive a few blocks in the neighborhood	
Drive around in residential areas	
Drive on a downtown suburban business street	
Drive on a main arterial road	
Drive on a freeway	
Drive into the city	
Drive on narrow mountain roads	

Problem-Solving Self-Efficacy

Please rate how certain you are that you can solve the academic problems at each of the levels described below.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot do at all				N	Moderate can do	ely			Highly	certain can do

				Confidence (0-100)
Can solve	10% of	the	problems	
"	20% "	"	"	
"	30% "	"	"	
"	40% "	"	"	
"	50% "	"	"	
"	60% "	"	"	
"	70% "	"	"	
"	80% "	"	"	
"	90% "	"	"	
"	100% "	"	"	
	100/0			

Pain Management Self-Efficacy

20

30

40

10

People sometimes do things to reduce their pain without taking medication. Please rate how certain you are that you can reduce the different levels of pain described below?

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

50

Moderately

60

70

80

90

100

Highly certain can do

Cannot do at all	Moderately can do	
		Confidence (0-100)
	Reduce a DULL PAIN A small reduction A moderate reduction A large reduction	
	Reduce an ACHING PAIN A small reduction A moderate reduction A large reduction	
	Reduce a PENETRATING PAIN A small reduction A moderate reduction A large reduction	
	Reduce an EXCRUCIATING PAIN A small reduction A moderate reduction	

A large reduction

Children's Self-Efficacy Scale

This questionnaire is designed to help us get a better understanding of the kinds of things that are difficult for students. Please rate how certain you are that you can do each of the things described below by writing the appropriate number. Your answers will be kept strictly confidential and will not be identified by name.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

Cannot do at all	Moderately can do	Highly certain can do
		Confidence (0-100)
Self-Efficacy in Enlisting	Social Resources	
Get teachers to help me	when I get stuck on schoolwork	
Get another student to	help me when I get stuck on schoolwork	
	hen I have social problems	
Get a friend to help me	when I have social problems	
Self-Efficacy for Academi	ic Achievement	
Learn general mathema		
Learn algebra		
Learn science		
Learn biology		
Learn reading, writing,	and language skills	
Learn to use computers		
Learn a foreign languag	ge	
Learn social studies		
Learn English gramma	r	
Self-Efficacy for Self-Reg	ulated Learning	
Finish my homework as	signments by deadlines	
Get myself to study whe	n there are other interesting things to do	
Always concentrate on s	school subjects during class	
Take good notes during	class instruction	
	nformation for class assignments	
Plan my schoolwork for		
Organize my schoolwor		
	ation presented in class and textbooks	
Arrange a place to stud		
Get myself to do school	work	

Self-I	Efficacy for Leisure Time Skills and Extracurricular Activities
Le	arn sports skills well
Le	arn dance skills well
Le	arn music skills well
	the kinds of things needed to work on the school newspaper
Do	the things needed to serve in school government
Do	the kinds of things needed to take part in school plays
Do	regular physical education activities
	arn the skills needed for team sports (for example, basketball, volleyball, swimming, football, soccer)
Self-I	Regulatory Efficacy
Re	sist peer pressure to do things in school that can get me into trouble
	p myself from skipping school when I feel bored or upset
	sist peer pressure to smoke cigarettes
	sist peer pressure to drink beer, wine, or liquor
Re	sist peer pressure to smoke marijuana
Re	sist peer pressure to use pills (uppers, downers)
Re	sist peer pressure to have sexual intercourse
	ntrol my temper
Self-I	Efficacy to Meet Others' Expectations
Liv	e up to what my parents expect of me
Liv	e up to what my teachers expect of me
Liv	e up to what my peers expect of me
Liv	e up to what I expect of myself
Socia	1 Self-Efficacy
Ma	ke and keep friends of the opposite sex
	ke and keep friends of the same sex
	rry on conversations with others
Wo	rk well in a group
Self-A	Assertive Efficacy
Ex	press my opinions when other classmates disagree with me
	nd up for myself when I feel I am being treated unfairly
Ge	t others to stop annoying me or hurting my feelings
Sta	nd firm to someone who is asking me to do something unreasonable or inconvenient
Self-I	Efficacy for Enlisting Parental and Community Support
	t my parents to help me with a problem
	t my brother(s) and sister(s) to help me with a problem
	t my parents to take part in school activities
	t people outside the school to take an interest in my school
	(for example, community groups, churches)

0

10

20

30

40

Teacher Self-Efficacy Scale

This questionnaire is designed to help us gain a better understanding of the kinds of things that create difficulties for teachers in their school activities. Please rate how certain you are that you can do the things discussed below by writing the appropriate number. Your answers will be kept strictly confidential and will not be identified by name.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

50

60

70

80

90

100

do

Cannot	Moderately	Highly cert
do at all	can do	can
		Confidence (0-100)
Efficacy to Influence Decisi	on Making	
Influence the decisions tha	at are made in the school	
Express my views freely on	n important school matters	
Get the instructional mate	rials and equipment I need	
Instructional Self-Efficacy		
Get through to the most d	ifficult students	
Get students to learn wher	n there is a lack of support from the home	
Keep students on task on o	difficult assignments	
Increase students' memory	y of what they have been taught in previous	
lessons		
	w low interest in schoolwork	
Get students to work well t		
	f adverse community conditions on	
students' learning		
Get children to do their ho	omework	
Disciplinary Self-Efficacy		
Get children to follow class		
Control disruptive behavio		
Prevent problem behavior	on the school grounds	
Efficacy to Enlist Parental I	nvolvement	
Get parents to become inv		
	heir children do well in school	
Make parents feel comfort	0	
Efficacy to Enlist Communi		
	volved in working with the school	
Get businesses involved in		
Get local colleges and univ	versities involved in working with the school	
Efficacy to Create a Positive	School Climate	
Make the school a safe pla		
Make students enjoy comin	U	
Get students to trust teach		
Help other teachers with t		
	ween teachers and the administration	
to make the school run	effectively	
Reduce school dropout		
Reduce school absenteeisn		
Get students to believe the	ey can do well in school work	

Parental Self-Efficacy

This questionnaire is designed to help us gain better understanding of the kinds of things that create difficulties for parents to affect their children's academic development. Please rate how certain you are that you can do the things discussed below by writing the appropriate number. Your answers will be kept strictly confidential and will not be identified by name.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot do at all				N	Moderately can do	,			Highly	certain can do
										idence 100)
Efficacy	to Influ	ence So	hool-Re	lated Pe	erformanc	e				
•			ee schoo							
,					r schoolwo	ork				
Get yo	ur child	lren to s	tay out c	of trouble	e at school					
Help y	our chi	ldren ge	et good g	grades at	school					
Get yo	ur child	lren to e	enjoy sch	ool						
Showy	your chi	ldren th	at worki	ng hard	at school	influen	ices later	· success		
Efficacy	to Influ	ence L	eisure-Ti	me Acti	vities					
•					le of schoo	l (e.g.,	music, a	rt. dance		
,	s, sports					\ 0'	,	,		
Get yo	ur child	ren to l	keep phy	sically fi	t					
Find ti	me for	leisure a	ctivities	with you	ır children					
Efficacy	in Setti	ng Limi	its. Mon	itoring /	Activities,	and In	fluencir	ıg Peer		
Affiliatio		-5	,		,			-5		
Keep t	rack of	what yo	ur childı	ren are d	loing wher	they a	are outsi	de the		
hon		,			O	,				
Prever	nt your c	hildren	from ge	tting in	with the w	rong ci	rowd of f	riends		
Get yo	ur child	lren to a	ssociate	with frie	ends who a	re goo	d for the	em		
Get yo	ur child	lren to d	lo things	you wa	nt at home	;				
Manag	ge when	your ch	ildren g	o out an	d when th	ey have	e to be ir	1		
Instill	your val	lues in y	our chil	dren						
Spend	time wi	ith your	children	and the	eir friends					
Work v	with oth	er parei	nts to ke	ep the n	eighborho	od safe	for you	r children	ı <u></u>	
Кеер у	our chi	ldren fr	om goin	g to dan	gerous are	as, cor	ners, or	play-		
grou	ands									

Teacher Self-Efficacy to Promote Reading

Ratings for Your Class Only

Listed below are eight different levels of achievement scores on the criterion referenced test (CRT). Please rate how certain you are that your class can attain the different average levels of CRT scores by the end of the school year. Record the appropriate number to the right of each of the eight levels of school average levels of CRT scores.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot do at all				N	Ioderate can do	ely			Highly	certain can do

CRT class average by end of school year:	Confidence (0-100)
30% correct	
40% correct	
50% correct	
60% correct	
70% correct	
80% correct	
90% correct	
100% correct	

Teacher Self-Efficacy to Promote Mathematics

Listed below are eight different levels of achievement scores on the criterion referenced test (CRT). Please rate how certain you are that **your class** can attain the different average levels of CRT scores by the end of the school year. Record the appropriate number to the right of **each** of the eight levels of school average levels of CRT scores.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot do at all				N	Aoderate can do	ely			Highly	certain can do

CRT class average by end of school year:	Confidence (0-100)
30% correct	
40% correct	
50% correct	
60% correct	
70% correct	
80% correct	
90% correct	
100% correct	

Collective Efficacy to Promote Reading

Rating for Your School as a Whole

Listed below are eight different levels of achievement scores on the criterion referenced test (CRT). Please rate how certain you are that your school as a whole can attain the different average levels of CRT scores by the end of the school year. Record the appropriate number to the right of **each** of the eight levels of school average levels of CRT scores.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot do at all				N	Moderate can do	ely			Highl	y certain can do
	CRT school average by end of school year:						Confider (0-100			
				30% coı	rrect			_		
				40% con	rrect			_		
				50% coı	rrect			_		
60% corr				rrect			_			
				70% coı	rrect			_		
				80% coa	rrect			_		
				90% cor	rrect			_		

100% correct

Collective Efficacy to Promote Mathematics

Rating for Your School as a Whole

Listed below are eight different levels of achievement scores on the criterion referenced test (CRT). Please rate how certain you are that **your school as a whole** can attain the different average levels of CRT scores by the end of the school year. Record the appropriate number to the right of **each** of the eight levels of school average levels of CRT scores.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

0	10	20	30	40	50	60	70	80	90	100
Cannot do at all				N	Aoderate can do	ely			Highly	certain can do
		CI	RT schoo	ol averag	e by	C	onfiden	ce		

end of school year:	(0-100)		
30% correct			
40% correct			
50% correct			
60% correct			
70% correct			
80% correct			
90% correct			
100% correct			

70

80

90

100

can do

Highly certain

Perceived Collective Family Efficacy

0

Cannot

do at all

10

20

30

Celebrate family traditions even in difficult times Serve as a good example for the community Remain confident during difficult times Accept each member's need for independence

Cooperate with schools to improve their educational practices

40

The statements below describe situations that commonly arise in families. For each situation please rate how certain you are that your family, working together as a whole, can manage them effectively. Your answers will be kept strictly confidential and will not be identified by name.

Rate your degree of confidence by recording a number from 0 to 100 using the scale given below:

50

Moderately

can do

60

	Confidence (0-100)
How well, working together as a whole, can your family:	
Set aside leisure time with each other when other things press for attention	
Agree to decisions that require giving up personal interests	
Resolve conflicts when family members feel they are not being treated fairly	
Prevent family disagreements from turning into heated arguments	
Get family members to share household responsibilities	
Support each other in times of stress	
Bounce back quickly from adverse experiences	
Help each other to achieve their personal goals	
Build respect for each other's particular interests	
Help each other with work demands	
Get family members to carry out their responsibilities when they neglect them	
Build trust in each other	
Figure out what choices to make when the family faces important decisions	
Find community resources and make good use of them for the family	
Get the family to keep close ties to their larger family	

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