

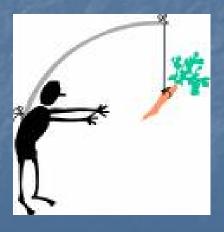
Motivation

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What is Motivation?

"Motivation is the **process** whereby goal-directed **activity** is instigated and sustained" (Motivation in Education. Schunk, Pintrich & Meece, 2008.)



What Characterizes Motivation?

Characteristics:

Push or pull (motives)

Direction

Perseverance

Intensity

Quality

Motivation is ACTION!



"Motivation can influence what, when and how we learn."

"Students motivated to learn about a topic are apt to engage in related activities...which improve learning"

Motivation in Education, Schunk, Pintrich & Meece, 2008

Motivation → Engagement → Learning

Different Terms Used in Motivational Research

- Interest Interest refers to either (a) the psychological state of being engaged or the inclination to reengage with particular classes of objects, events, or ideas over time, which is often called individual interest or (b) situational interest which is a state of heightened awareness that is prompted by particular features of the environment.
- Attitudes An attitude is a positive or negative stance, opinion and evaluation about just about anything, such as people, objects, events, activities, ideas, and professions. One can have a positive attitude about something (e.g., "I think neuroscience is very important") without being interested in it; however, we tend to have positive attitudes about things that interest us.

Different Terms Used in Motivational Research

Self-efficacy is a competence belief. Self-efficacy is an expectancy about one's capabilities to learn or perform a given task. Selfconcept is "beliefs, hypotheses, and assumptions that the individual has about himself. It is the person's view of himself as conceived and organized from his inner vantage [and] includes the person's ideas of the kind of person he is, the characteristics that he possesses, and his most important and striking traits". Self-efficacy is specific to a task; self-concept is not.

Motivational Theories

Motivational theories try to explain the process and influences that lead a person to behave in a particular way.

Motivational Theories

- Expectancy-Value Theory (Eccles, 1983)
- Attribution Theory (Weiner, 1986)
- Self-Determination Theory (Deci, 1980)
- Achievement Goal Theory (Ames, 1992)
- Social Cognitive Theory (Bandura, 1986)

Value-Expectancy Theory

Exercise:

- 1. What is the value of this course/class to you?
- 2. To what degree do you think you'll succeed in this course?

Expectancy-Value Theory

Level of Motivation = Value x Success Expectancy

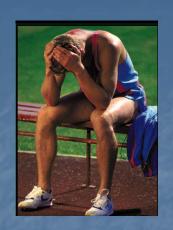
Is the task important to me?

Am I able to succeed at the task?





Success Expectancy



Self-Efficacy

Understanding the task

Influenced by:

- Prior experiences of success/failure
- Observing others
- Verbal persuasion
- Psychological/emotional state

Value



Cost (other options, negative feelings, effort)

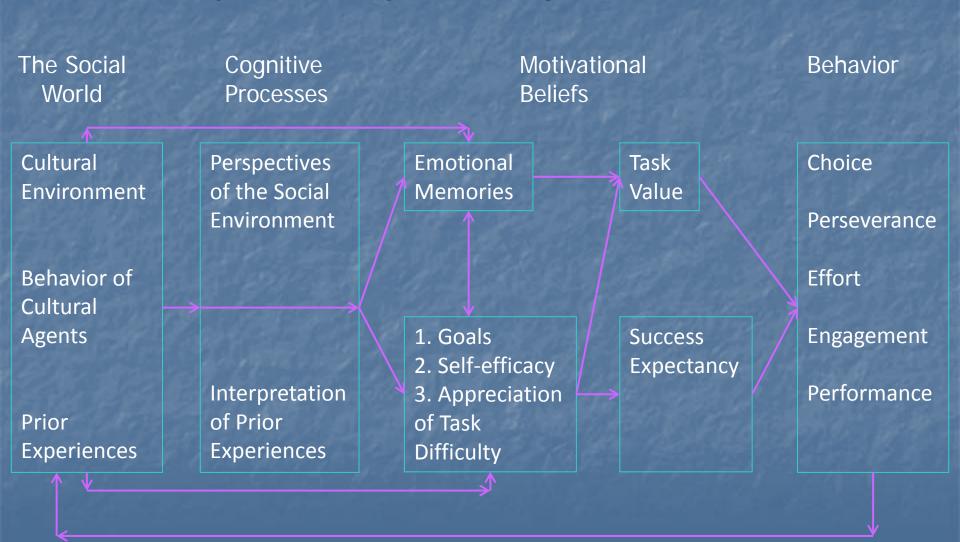
Intrinsic (pleasure, interest)

Utility
(for practical purposes)

Attainment (internal needs, belonging, values, identity)



Value-Expectancy Theory – The Full Model



Value-Expectancy Theory – Sample Items

Expectations

To what degree do you think you will succeed in the next test in science? Compared to other students, how do you think you'll succeed in science this year?

Values

I think it's important to be good at solving math problems. I'm very interested in this course.

Value-Expectancy Theory

Examples for Classroom Practice

- •Helping students develop high, but realistic expectations (reasonable challenge level, realistic and specific feedback).
- •Supporting positive beliefs about learning (ability can be developed, minimizing social comparisons).
- •Supporting positive values about learning (modeling enthusiasm, supporting personal interests through autonomy & choice).



Exercise:

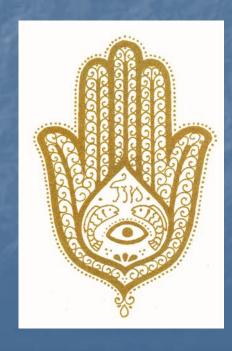
- 1. Recall two experiences, one of success and one of failure.

 Describe each in one sentence.
- 2. Describe which emotions were aroused in you by each experience.
- 3. Describe what you think were the reasons for success/failure in each case.

(Weiner, 1986)

Attributions = Factors that are grasped as reasons for outcomes









Possible Attributes for Success and Failure







Skill

Effort

Difficulty of task

Luck

Fatigue

Health

Help from others







Attribution Dimensions

- Locus is the attribute located in the student or out of him?
- Controllability Is the attribute grasped as something one can control and manipulate?
- Stability Is the attribute grasped as something constant of variable?

Categorizing Attributes according to their Dimensions

	Internal		External	
	Controlled	Non- controlled	Controlled	Non- controlled
Constant	Long-term effort	Talent	Teacher support?	Task difficulty
Variable	Short-term effort; skills	Health, fatigue	Help from others?	Luck

The student's perception is what counts!!!

Attribute Dimensions

Emotion

Pride Self-value

Locus

Helplessness, Despair Hope



Stability

Guilt Shame



Controllability



For Example

A failure that is attributed to a constant factor, internal, and uncontrolled (such as lack of ability) poor motivation



A failure that is attributed to an internal factor, variable, and controllable (such as effort) high motivation



Examples of Classroom Practice



- •Reliable, accurate, and informative feedback
- •Relating failure to lack of effort only when no effort was made
- •Relating success to effort only when an effort was really made
- •Relating success to constant factors (encourages expectation of future success)

Self-Determination Theory

Deci, Vallerand, Pelletier, & Ryan, 1991

Emphasize 3 human needs:

- The need to belong
- The need for ability
- The need for autonomy





The satisfaction of these needs will bring people to be deeply and effectively engaged.

Extrinsic Motivation

Intrinsic Motivation

Doing something because it leads to certain results

Doing something for its own sake





Doing homework because it's important for the matriculation exams – intrinsic or extrinsic?

Research shows that ...

Intrinsically motivated students tend to develop autonomous styles of self-determination, to achieve more, to better adapt and to understand better than extrinsically motivated students.

Do external rewards detrimentally influence intrinsic motivation?

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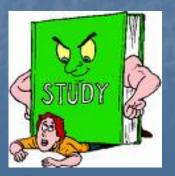
An Important Distinction

Self Determination - "The ability to have choices and some degree of control in what we do and how we do it." (Koballa and Glynn, 2007)

Self Regulation – "An active, constructive process whereby learners set goals for their learning and then attempt to monitor, regulate and control their cognition, motivation, and behavior, guided and constrained by their goals and the contextual features in the environment." (Pintrich, 2000)

Suppressing Intrinsic Motivation

- Rewards
- Threats
- Deadlines
- Evaluation



Supporting Intrinsic Motivation

- Optimal Challenge
- Sense of control & choice
- Curiosity, fantasy
- Positive feedback about ability
- Empathy & personal relations



Example Items

- I do my homework and assignments because they interest me.
- I study seriously because it will help me in the future.
- I do my homework so that I won't feel bad about myself.
- I study seriously because I don't want to be punished.



Achievement Goal Theory

(Ames, 1992a)



How was it in school today?

Fun... ???



I was the first one to finish the math worksheet... I was the only one who knew to answer the teacher's question in bible... In literature the teacher showed everybody my essay as an example of excellent work

How was it in school today?

Fun... ???

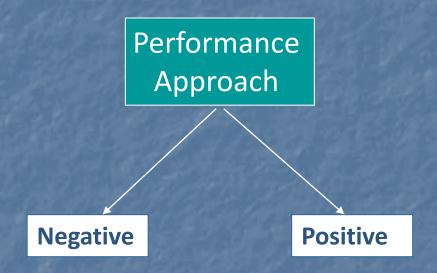


I finally succeeded in to doing division by myself... In bible I participated in a really interesting discussion on Jonah... In literature I worked with a friend and we had some great ideas

Cognitive Persistence engagement Self-regulated Preferance for learning challenges Advanced learning **Effort** strategies Mastery Goal Orientation Long-term Interest memory Transfer of Positive affect problem-solving **Self-Efficacy** strategies

Performance Goal Orientation





Environmental Factors that can Influence Goal Orientation

Perceptions



Teacher •

Peers

Parents •





TARGETS



- Task classroom activities
- Autonomy/Authority choice
- Recognition praising in public
- Grouping according to ability
- Evaluation tests, portfolio
- Timing submitting tasks late
- Social interaction class discussion, availability of teacher after class



Example Items

- An important reason I pay attention in science class is because it's important to me to improve my knowledge (mastery)
- One of my goals is to seem smart in science class in comparison to the other students (performance approach)
- It's important to me no to seem stupid in science class (performance avoid)

Continuing Motivation

"Education is not the filling of a pail, but the lighting of a fire."

