

THE INFORMATION PROCESSING AND ITS RELATION TO CREATIVE THINKING STUDENTS AT THE FOURTH PHASE IN THE FACULTY OF EDUCATION PHYSICAL AND SPORTS SCIENCES

Dr. Intisar Ahmed Othman

College of Physical Education and Sports Sciences, Basra University

Intsar.ahmed@uobasrah.edu.iq

Abstract

The theory of information processing is one of the important trends and the president in cognitive psychology, a special view of the human being of its individual, and that behavioral learning confirms the mechanical principle of learning as a major part-based part of the mechanical means of means Excesses as forces forced learner to use certain behavioral methods. Creative thinking is a mental activity that has a strong desire to seek solutions or achieve original outputs formerly known, and is characterized by synthesis and complexity because it involves cognitive elements and an overlapping ethical effects constitute a unique mindset, and the researchers uses various expressions that meet the concept of creative thinking such as thinking Product and thinking, dedicated, http or lateral thinking

The study was aimed at identifying the methods of information processing at first phase students at the Faculty of Physical Education and Sports Sciences. The researcher used the researcher to describe the descriptive method of the facilitation of the nature of the search. The sample included the search for the fourth phase students at the Faculty of Physical Education and Sports Sciences / University of Basra for the academic year (2020-2021), where the number of research society (68) was student. :

1. The existence of a positive relationship between information processing and creative thinking among students of phase IV.
- 2 - The fourth phase students have a good level in addressing information, which shown through the rate of arithmetic.

Keywords: Processing information; Creative thinking.

1 - Definition of Research

1-1 Introduction :

The great concern for the human mind and its growth methods and development reflects us without doubt the features of the distinctive educational system. It is a



system provided on the basis of development and opening a new horizon for the minds of individuals and their care to be at the level of its societies and to play an effective role in the post-industry community that requires an individual Of cognitive adjustment. The theory of information processing is one of the important trends and the president in cognitive psychology, which has a special view of the human being of its unilateral mental capabilities. Contact a higher limit for the rate we can transfer in any communication channel. It has been used in psychology as a measurement psychologist. The view of the theory of information processing consists of several internal operations that occur between the stage of receiving the environmental stimulation and its individual response. The cognitive mentality includes attention and perception and then Keep and store information, which is not a direct result of external alert and exceptional exchanges, but is the result of effective activity for complex indemnity cumulative across different stages of growth, and the difference between this cognitive and theories in the field of psychology and learning, is to confirm Convert and encoded information and all mental processes associated with them, strategies and plans that are used to help appear more than exciting response, and behavioral learning confirms the mechanical principle in learning as a major part-based part based on the principle of mechanical means in which the exciting means as forces forced the learner Certain behavioral methods.

Creative thinking is a mental activity that has a strong desire to seek solutions or achieve original outputs formerly known, and is characterized by synthesis and complexity because it involves cognitive elements and an overlapping ethical effects constitute a unique mindset, and the researchers uses various expressions that meet the concept of creative thinking such as thinking Product and thinking, dedicated, http or lateral thinking.

Hence, the importance of finding the knowledge of information processing and relationship to creative thinking for the students of the fourth stage at the Faculty of Physical Education and Sports Sciences.

1-2 Research Problem:

The importance of information treatment has emerged as one of the new dimension to develop the knowledge direction In his view of the educational and educational process and that learning is immersed in the way we accept information and how this information is stored and retrieved again, where the search problem was formulated in the following questions:



Did the fourth phase students have a method of addressing information?

Do students have the fourth phase of creative thinking?

1-3 Research Objectives:

- 1- Identify information processing methods at first phase students at the Faculty of Physical Education and Sports Sciences.
- 2- Identify creative thinking among students of the fourth stage at the Faculty of Physical Education and Sports Sciences.

1-4 Research Hypothesis:

- The existence of a link between testing methods for addressing information and creative thinking for the fourth cheerful students at the Faculty of Physical Education and Sports Sciences

1-5 Fields of Research:

1-5-1 The human field : Students of the fourth phase of the Faculty of Physical Education and Sports Sciences - University of Basra.

1-5-2 Spatial domain : Faculty of Physical Education and Sports Sciences.

1-5-2 Time domain: 1/2/2021 until 23/5/2021

2 - Research methodology and field procedures:

2-1 Research methodology:

The researcher used the descriptive approach to the facilitation of the nature of the research for the nature of the

.(Raysan khreebet : 1987)

2-2 Research Society and Sample:

The researcher identified the research community and the students of the stage of the stage at the Faculty of Physical Education and Sports Sciences / University of Basra for the academic year (2020-2021), where the number of research society (68) was student. , No by (29.411%)

2-3 Means of collection of information, tools and devices used:

2-3-1 Means of collection of information:

- Arab sources and references.
- Personal interviews.



- Disturb data form

2-4 standards used in research

2-4-1 Scale information processing:

The scale of the information was used to address information, which was translated into Arabic, and was modified by Mohamed Ahmed (Jassim Mohamed Ali: 2014).

It is composed of four sub-measures (gauge, methodology measurement, scientific and expanded and expanded treatment measurement), and the measurement in the originally component of (62) paragraph and bilateral response, after the amendment by Mohamed Ahmed became 59 paragraph and a tripartite response (Always apply, sometimes apply, do not apply) as in an annex (2), and the highest scale of scale (177) and a degree (59).

2-4-2 Creative Thinking Scale (Mohammad Shehata: 2011)

The researcher used a test (Princeton) to think about the amendment of the amended (beautiful flower: 2006) and has been introduced to a group of experts in the field of tests, measurement and teaching modalities to check its application on the search sample, noting or deleted any paragraph the scale.

The scale includes 74 paragraphs, and the score ranges from (74) to (222), and the effectiveness of alternatives (agree, hesitant, is not agree), as in an appendix (1) & (2) .

2-5 Exploratory Experiments:

The researcher has made an intervention experience on 10/2/2202 on (5) of the students of the Faculty of Physical Education and Sports Sciences / Basra University and are outside the sample for the purpose of determining the time needed to answer the paragraphs of the scale and to identify the difficulties faced by the researcher.

2-6 Main Experience:

The main experience has been made by distributing an intellectual stalemate scale and a self-realization form on the sample of the research on 17/2/2202 by following the method of direct contact with the sample personnel and after the collection of sample answered the researcher data.



2-7 Statistical means:

The SPSS statistical bag (Version 17) was used to extract the following necessary data.

- Percentage Act.
- Arithmetic mean
- Standard deviation
- Pearson correlation

3- View and Discussion Results:

The presentation of tests for sample variables comes with the presentation of the calculations and standard deviations in illustrations after the necessary statistical processes for easy observation and the possibility of linking and statistical relationships to achieve the search objectives and its statistics.

3-1 Presentation and analysis of the results measure of information processing and creative thinking

Table (1) The calculation and standard deviations and value (R) are calculated and statistical For sample search variables

NO	VERBELE	Arithmetic mean	standard deviation	The calculated R value	Sig	indication
1	Information processing style	146.70	14.03	0.908	0.000	moral
2	Creative thinking	169.40	42.17			

Freedom degree (n-2) = 18 levels (0.05)

Table (1) for the measurement of the information processing method has reached the arithmetic and standard deviation (146.70, +14.03), and the test scale of creative thinking was the arithmetic medium and standard deviation (196.40, +42.17), and at the value of (0.908) and a degree (SIG) <(0.05) at a significant level (0.05) and free (18), which means a significant link between the two tests.

3-2 Discussion Results

The researcher attributes the cause of a significant link relationship between testing methods and creative thinking to the sample level. the brain .



The researcher also attributed the reason for the moral link relationship that students have the ability of creative thinking has helped them properly to understand the article, which is easily refined by the report when needed.

That the knowledge treatment of information is addressed by mental processes as a mentally mental plans used by students to acquire, return and retrieval, as well as analysis and classification of information in the education position, illustrating the knowledge treatment of information (Emad Abdel Rahim: 2010)

The process of upgrading and high achievement in any knowledge mental process means capacity and employment and activation and revitalization of information. It depends on the possibility of receiving and activating the active interaction that enriches previous information stored any conscious ability to storage, retention and retrieval in accordance with the requirements of the situation and the unique properties Saadi Jassim: 2007)

4- Conclusions & Recommendations

4-1 Conclusions

- 1-. There is a positive relationship between information processing and creative thinking among students of phase IV.
- 2- - The fourth phase students have a good level in processing information, which shown through the rate of arithmetic.
- 3-. The students of the fourth phase have the ability to think of creative thinking through the rate of arithmetic.

4-2 Recommendations:

1. The need to pay attention to the lesson because it is an important point for students to receive information.
2. The need to know the level of creative thinking for students before you begin to teach their own skills any game whether individual was or collective to reduce the level of individual differences between students.
3. Educating students understanding creative thinking and its impact on their course and has a significant role in improving their performance and achievements.
4. Conduct similar studies in the methods of addressing information and creative thinking on gym skills within the vocabulary of physical education colleges and sports sciences.



References

1. Raysan Khreibe Majid: (1987), Research curricula in physical education. Mosul, House of Printing and Publishing, p. 83.
2. Jassim Mohammed Ali: (2014) , Methods of processing information with talented and outstanding students, Published, University of Diyala, Faculty of Education for Girls , p. 15.
3. Mohamed Shehata: (2011) Personal measurement, Dar al-Masirah for publication and distribution, p. 593.
4. Jamil Flower Saleh: (2006) ,Creative thinking and his relationship with cognitive and skilled collection in swimming pool in the students of the first school year, Master's Message (unpublished), University of Mosul, Faculty of Physical Education and Sports Sciences,, p. 155.
5. Emad Abdel Rahim: (2010) ,Learning theories, Amman, Dar Al Shorouk, , p55.
6. Saadi Jassim Attia: (2007) , Information processing and its relationship with intelligence with students of teachers, the journal of the primary education, the university of the victory, number 47, p14.
7. Hussein, G. L., Hasan, A. J., & Al-Jadaan, D. A. N. (2022). THE EFFECT OF THE SWOM STRATEGY ON LEARNING SOME ARTISTIC GYMNASTICS SKILLS FOR STUDENTS. ResearchJet Journal of Analysis and Inventions, 3(04), 108-123.
8. Hasan, A. J., Hussein, G. L., & Al-Jadaan, D. A. N. (2022). THE EFFECT OF KARPLUS STRATEGY ON LEARNING SOME BASIC SKILLS IN ARTISTIC GYMNASTICS FOR STUDENTS. ResearchJet Journal of Analysis and Inventions, 3(04), 64-80.
9. Kassem, D. A. S. N. W. (1818). Jawad.(2015). The relationship of the inertia torque of the kicked parts of the finer performance of the scoring skill of football for the halls. Journal of Physical Education Studies and Research, 43, 401-412.
10. Neamah, D. A. S. (1818). Comparative study of varying distances of approximate running on some biomechanical variables to accurately perform the aiming skill by jumping forward in hand. Journal of Physical Education Studies and Research, 44, 46-70.
11. Shatnawi, M. M., Al-Jadaan, D. A. N., Ahmad, M. A., & Al-Saeedin, M. S. (2021). ANALYTICAL STUDY OF SOME BIOMECHANICAL VARIABLES FOR THE ACCURACY OF THE PERFORMANCE OF THE CORRECTION SKILL BY JUMPING FORWARD WITH A HAND BALL. Turkish Journal of Physiotherapy and Rehabilitation, 32(3).



12. Dhurgham A. Neamah Al-Jadaan, Hayder Odda Zeghair, Kadhim Habeeb Abbas, Saeed Hussein Hasan (2021). An analytical study of the levels of psychological compatibility in premier-class handball players. Turkish Journal of Physiotherapy and Rehabilitation, 32(3).

Appendix (1) Information processing methods

NO	The paragraph	apply always	applies sometimes	not applicable
1	I find it difficult to address questions that require different concepts			
2	I find a hardship in organizing the information I remember			
3	I find a hardship in the course of the study during the exam you are carefully studied			
4	I find it difficult for answering questions requiring Gabi well on the scenically exams			
5	I have difficulty expressing my ideas in appropriate words			
6	I find it difficult to learn how to study a certain article			
7	I find it difficult to plan for my studies when I faced a complex study			
8	Get good grades in reports			
9	I find a hardship in reaching conclusions			
10	Save the heart of the articles that do not understand			
11	I find it difficult to observe the differences between the ideas that look similar			
12	I can decide the basic suggestion from behind the movies I watched and the books he studied			
13	I think quickly			
14	My coffers are very fast			
15	My answer is based on objective questions on guessing			
16	Need the differences between the right learners from different sources			
17	Read critic			



18	Limited as much information for examination purposes			
19	I have regular times for a weekly study			
20	I find it difficult when you begin to study and read its courses			
21	Referring the article periodically			
22	Keep a daily schedule for studies			
23	All my duties are carefully scheduled			
24	Type a summary of the article you read			
25	Spend time in the study longer than the majority of my friends spends			
26	I have made many observations to the course of several sources			
27	Read more than giving me in the class			
28	Refer to multiple sources to understand the idea			
29	Significant all articles studied when approaching the end of the semester or school year			
30	I have more separated by numbers of new terms			
31	Use the dictionary			
32	Continue in my studies for the material and to accommodate them			
33	Draw the shapes and put simple charts to help me remember the subject			
34	Make an exceptional effort to get details of all article			
35	Study by solving practical exercises			
36	have dedicated to study at home			
37	Best read original mind			
38	Use the library			
39	Reinstall and answer the possible questions when I read the exam			
40	A good answer in exams that require complete solution and information			
41	Learn equations, names and dates			
42	Answer the tests requiring definitions			
43	My answers are good at exams that require facts received in the book			



44	Search constantly for reasons behind the facts			
45	In the exams to save the article by heart as in the book			
46	Make me new concepts I think of similar concepts			
47	I express my own language from the facts and concepts he studied			
48	Several deaf methods are special to solve issues			
49	After my ordeal for any article I think deeply in the topics you read			
50	I learn new words and ideas to imagine a position that could occur			
51	When I learn a lesson from the article on your parents			
52	I learn new concepts by expressing her own parents			
53	When I study a system to remember the subject			
54	The mentally reviewed the topics I study during the day			
55	The new words and ideas are connected to words and ideas I know before			
56	I learn new ideas to compare them with similar ideas			
57	Following the facts to the laws drawing from my own experience and experimenting			
58	When you learn new concepts I put them process applications			

Appendix (2) the scale of creative thinking

NO	The paragraph	apply always	applies sometimes	not applicable
1	Follow the correct and non-familiar actions sometimes to solve my school problems			
3	I hope to get all questions that spin in my mind			
4	There are activities that are interested more than other students			



4	I can solve my problems if you follow a logical logical			
5	Sometimes I am an audio to see the group			
6	that is trying to limit the effectiveness of some student			
7	Spend a long time in thinking to solve my problems			
8	I work what the right thing I think and I do			
9	not care about the conviction of others Students who seem to be unsure of things without respect for them			
10	I need important things and fun more than others			
11	I know how to watch the interior			
12	I can bear problems for a long time			
13	Sometimes they are accompanied by things greatly			
14	Often the best ideas come when I do not do something specific			
15	He depended on the interior and my guess in health and heated when they are in the process of access to solve the problem			
16	Prisoner to reach the high level and force in life			
17	I have to organize the information collected to get out of the best picture			
18	Sometimes criticized because of the violators of the instructions			
19	I love hobbies that relate to the collection of things			
20	Deep thinking helped me solve a lot of my problems			
21	I love serious and objective students			
22	I had to choose between two and my current professions to be medical to be a teacher			
23	I can handle easily with individuals if they are growing for the same social and scientific level they have identified			
24	I have an allergy to beauty I love people who are more confident of their conclusions			
25	Inspiration has nothing to do with the correct problems			

26	When I subscribe to me, more I am happy if			
27	I became my friend and even if it was at the expense of sacrificing theoretical destination			
28	I care about introducing new and non-familiar ideas			
29	Enjoy the lonely thinking			
30	Emile to avoid situations that I feel like me			
31	The information was set up from its source Fueling unusual and unpredictable things			
32	I love individuals who follow the base (kids)			
33	I feel that individuals are struggling to get to perfection across sages			
34	Best to work with others instead of working alone			
35	Respect for his individual's most important respect for others			
36	I love the work that raises the attention of others			
37	can not solve much of the problems you face in life			
38	I love to be everything in place and there is everything			
39	I love reviewing modern and exotic and non-familiar books			
40	The problem of many students that they take things very seriously			
41	I can preserve and protect many sports achievements even in the presence of frustration and obstacles			
42	Students who tend to enjoy other ideas			
43	I impressed the uncommon good thing Psychologically reviewed a world			
44	Enjoy the new ideas even with its practical use			
45	I do not like to ask questions that violate			
46	Humble more while they can be more than exist			
47	through which not pay attention			

48	When he took action in a project			
49	I seek hard to succeed and get rid of obstacles			
50	Sometimes you see me ideas outside my will			
51	Sometimes in the problems because of the love of poll			
52	Often says on people			
53	I'm afraid of my feelings and my artifers in more than the rest of people			
54	Easy to change my interests to work in a particular area, following a practical change in order to please my interests			
55	Students who work for theories are less important than the process of processes			
56	When a group is putting many ideas on what they are more able to make more ideas and quickly			
57	I am not ashamed to express my interests with the other one			
58	I do not give up my goals in life despite the difficulties you face			
59	Diplomats must be with people			
60	I feel a lack of time when the mistakes of other			
61	It is not wrong to boast a little in front of others and the other			
62	Enjoy a lot in overcoming deceptive When someone tries to stand in front of me in the queue, I feel his screop			
63	Unclear problems away from them Life attracts me and enjoys my interes			
64	I trust my feelings to lead me in my experience			
65	When I feel a problem, I never work solve the problem			
66	My interest is all new and unfamiliar			
67	Sometimes Emile to Nesin things like names			
68	Individuals crossing their feelings and emotions either are not stable			
69	and people, streets, highway			



70	During my teenage period I had a desire to be lonely and achieved my ideas and my concern			
71	I feel the hard work is the basic action of success			
72	Many creative works are the result of chance factors			
73	I am very interested in an important member of the team			
74	I was happy in my childhood			