

Effect Strategy Network Questions On Self-Learning Skills For Second-Year Female Students In Biology

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KEYWORDS

Strategy Network Questions, Self-Learning Skills, Female Students The Line The Second Average

ABSTRACT

Aim to search Present Identify on(Effect strategy network Questions on self-learning skills for second-year intermediate school students material Biology)And it was done to choose Curriculum Experimental Because he It fits with Goals search And it has She chose The researcher High School Eternity Girls Affiliate For schools Governmental Daytime For a directorate education Babylon-Judiciary Hashemite And determine Community search that It is composed from Female students the line the second Average And I have She got up The researcher In coordination with administration the school from during presentation book facilitation the mission And help school Subject For procedures application Experience As well as on containment That the school on three People For class the second Average And in a way the choice Random It was completed to choose Division(a)Adult number Her students(30)To represent the group Experimental that will study material Biology using strategy network questions As for Division(B)Adult number Her students(30)To represent the group Female officer that Studied material Biology In the way Ordinary.

And she was rewarded The researcher equivalent statistical between Female students My group search in Variables next:(the age Timeline Calculated In months , grades General the previous , a test Intelligence(Raven),a test skills Learning Self)where confine search on material Biology For class the second Average And it was rewarded The researcher application Experience in the chapter Academic the first For the year Academic(2023- 2024)And it was Subject specified With seasons(the first,the second,the third,the fourth)And after Procedure Valences between The two groups I worked The researcher on Preparation Accessories Application from Plans And goals And tests So I posed With a test skills Learning Self And it has Be from(36)paragraph And it was done making sure from charity Virtual And his stability And level difficulty His paragraphs, And strength discrimination His vertebrae.And after Finish from application Experience I got The researcher Data For my group search And it was done processed by a test(t, Test) for two independent samples, and the results showed that the female students of the experimental group outperformed the control group according to the question network strategy in testing the self-learning skills of the female students in the second intermediate year.

1. Introduction

Firstly: problem search

Facing Institutions Educational Challenges age different And exposed the operation Educational a result That Challenges For pressure Different because of increase Knowledge And the explosion Cognitive And growth Technological Accelerated About that had become It is necessary on Education The performance In turn The basic Toward keeping up this Progress The fast one So He should to set the problem And knowledge Its causes And how Her treatment And use Roads Occasion in order to Keep up this Progress The fast one It's a problem search Present that You eat it The researcher he The lack of skills among second-year intermediate school students and their weakness in... material Biology And it was a reason Low level Educated people he Use Methods Teaching Ordinary that no lead to Her turn in activation sharing Educated people inside the line and that most Learning that Complete inside Institutions Educational He is without Feasibility For the learner Because he Instruct me By degree The first and this is Doesn't lead to investigation Goals the operation Educational And educational so He is Role Educated people In which negative And it is the teacher he Axis the operation Educational And it manifests itself the problem Main in Use road lecture or Discussion Approved on questions Which Prepare from Wider Roads Spread A Because she Boring And harmful Smartly Learner She is no care With excitement Motives Learner to search And discovery And accreditation on Himself in Learning And no omission on Their needs or Response To their inclinations And their desires in Learning.

And in a light expertise The researcher Humble in area teaching material Biology, As well as on Interviews And discussions that I paid it The researcher with Many from Specialists in area Methods

teaching, And supervisors Specialists And teachers material Biology , She confirmed that The researcher so Submitted Questionnaire reconnaissance The opinion that rate 80% from Female teachers material Biology They confirm Existence weakness for those skills And from Okay Overcoming on the problems that You face it the system Educational He should Use Techniques New To learn And from This is amazing Methods he Learning Self that Aim to to Gain Learner skills And habits Learning Continuous To continue Learn it Self By himself And also He endures responsible education Himself By himself And constructive Community permanent Learning Bezel life (Defeats, 2005: 28) He is from More important Techniques Learning that give an opportunity Use skills Learning Effectively High Than Helps in progress And development Learner Behaviorally And cognitively And supply it With a weapon Important He can from Absorption data age Next and he pattern from Patterns Learning that to learn in it Learner how He learns what Wants he By himself that He learns it And it is considered skills Learning Self One direction Modern And so It is represented problem search Present in the answer on Wondering following:

what Effect strategy network questions in Collection material Biology For female students the line the second Average And skills Learning Self They have?

secondly: Importance search

Characterized age Present With changes A quick And he witnessed revolution Scientific in all fields Knowledge ; so Accumulated Discoveries Scientific With a picture not preceded from before So from the necessary Response Delicious the changes And keep up Discoveries Scientific from during development Institutions Educational that serve the society And its development The revolution Cognitive Trait from Features age the talk And contemporary And it affects in the operation Educational from Her input And its operations And its outputs As described Education responsible on Qualifying Generations To keep up Development And confront the future that Characterized With diversity And acceleration (two puppies, 2007: 26) And it exists Many from Strategies Modern Such as strategy network questions Which from Strategies Learning Active so Make way the field To merge Educated people in Activities Cooperative And it has She chose her The researcher To try it And prove Its effectiveness And you see The researcher Banha she The most appropriate For a substance Biology that Importance Learning Active It is represented in that it Increase from Fusion Educated people in the operation Educational And make it more fun And joy And it grows relations Social And interaction Positive between Educated people Some of them For some And it grows trust With the soul And motivation To accomplish the job And also It grows Value And trends Positivity They have As for Role the teacher So it is Wave And the guide And the facilitator For education And for this Van Strategies Learning Active Working on activation Role Learner In a way Basic And you make it Axis For the process Educational (El-Sherbiny And Al-Tannawi, 2011: 72) .

and that strategy network questions help Educated people on development Their abilities And their skills from during generation number from questions So she get up on revision And strengthen Concepts For questions that He takes it Learner in Section the first from the lesson , and that Goal The strategy help Educated people on revision Perceptions Alternative And get to know on questions to get on the answer on road search (Ambo Happy And goodness, 2016: 187) And he looks Educators to Importance Subtract questions And good Formulated on that it part from Techniques And skills Learning Active And it affects In a way direct in Attitudes Educational from where development skills Thinking I have Educated people And in more Collection Cognitive Than He increases from Collection Academic I have Learner (happiness And others , 2011: 139)

And in a light what progress maybe statement Importance search in points next:

- 1 –Importance Education in Preparation And development behavior Learner And constructive His personality for being from factors the basic that verification requirements the society.
- 2 –Importance teaching the sciences Such as science Biology For being Includes Topics Multiple Contribute in acquisition Educated people Concepts Biome.

.3-Prepare search the first on Limit science The researcher in material Biology Which eats strategy network questions with a variable Self-learning skill.

Third: A target search:

Aim to this search Identify on: Effect strategy network questions in:

1.skills Learning Self They have0

Fourthly:

Two hypotheses search:

1.nothing difference Dhu indication Statistic when level indication (0,05) between middle grades Female students the group Experimental Lati They study According For strategy network questions and average grades Female students the group Female officer Lati They study According For the method Ordinary in a test skills Learning Self.

Fifth: border search

1.the border Temporality: the chapter Academic the first from General Academic (2023-2024)

2.the border Scientific: seasons (the first, the second, the third, the fourth) from material science Biology The decision Teaching it for students the line the second Average in General Academic2023 _2024

3.the border Humanity: Female students the line the second Average.

4.the border Spatial: High School Eternity Girls Affiliate for Schools Governmental Daytime For a directorate education Babylon/Judiciary Hashemite.

Sixthly: to set Terminology.

Firstly: Impact:

He knew him all from:

1- (gift)That he is: Procedure Organizer on according to Standards Specific Throw to measurement what Earn it Learners from the facts and concepts and instructions and skills after study Theme Study or lonliness or established educational (gift ,2008:300).

I knew him the researcher Procedurally That he: Outcome Change that Produce or It is happening from teaching the researcher for a substance Biology Using strategy network questions in Collection Female students the line the second middle and skills Learning Self They have.

secondly: The strategy: He knew her all from:

1-((SCHUNK) is: a set of procedures and indicative plans that are prepared in advance by the teacher with the aim of reaching specific learning outcomes and outcomes according to the available capabilities (SCHUNK, 2000: 113).

I knew him the researcher Procedurally: one Strategies Teaching Constructivism I adopted it the researcher in teaching Female students the line the second Average the group Experimental For classes decided from book science Biology I dated Plans on according to Her steps

Third: strategy network questions:

1-(BELLANCA) is considered: one of the modern strategies in teaching and is part of active learning strategies that work to build and develop students' skills and abilities to ask questions, discuss, and interact in order to correct alternative perceptions that develop and enhance the learner's self-confidence in assuming responsibility (BELLANCA, 2009: 198).

the definition Procedural: she groups from procedures and practices and activities that I adopted it the researcher in teaching Female students the line the second Average on the group Experimental For

classes decided from book material Biology.:

Third: Self-learning skills

1-(The scavenger) to get to know Banha group from Skills that Hopes that He acquires it of which Learner capacity a personality and motivation Resume Help him in Guidance same and more Its activities towards investigation Goals Learning And its growth Cognitive And progress in Learn it (The scavenger,2014: 8).

And you know it the researcher Procedurally Pathogroup from Skills Make Female students a sample search Empowered from Guidance Teach them Self To achieve Their goals Measured By degree that They get on her when Their response to test skills Learning Self that Prepared For purposes search Present According to the four fields President, she (skills Planning Self for Process Learning, skills the study Subjectivity, Use sources Learning, Skills the public)

the chapter the second.

background theory and studies precedent.

Firstly: the theory Constructivism

that the theory Constructivism Represent Of experience Cognitive that He acquires it The individual from during some Skills And it is done Its development And processed And use it in Attitudes life different And it is used The individual the information on road the environment that surround with it And connect it With experiences Previous Constructivism Bind Knowledge Previous For the learner And knowledge suffix that He acquires it Learner so that Knowledge And information that It was completed Acquire it will Complete Retrieve it time the need because Learner He built it By himself And it merged with His information Previous(slave Fattah,2013:292).

And grounded the theory Constructivism on number from principles a Non-essential Which on Grammar following:

1-He is Axis fulcrum Learner on Knowledge Previous in practical Learning and this is Basis to construct Learning That meaning because Learner Builds Knowing Him New in a light His experiences Previous.

2-when Faces Learner Situations Real or Problems to speak from reality will It is happening Learning on better Face So he searches she has on Solution With what he has from Experiences And information precedent (Pardon and Macon ;2012.:28).

3-He should that It is characterized Learner in a light Constructivism By interaction and activity for a purpose Access to Knowledge and that Uses Of experience and information that Earn it in Solution Attitudes And the problems that Facing the society (olive ,2007: 44-45).

4 -in order to It is happening Learning Need to time or a period from Time No Gets Learning In a way direct and it must application of experience New in Attitudes life and also the focus on Ideas New And modern.

5-concentrate the line Constructivist on the initiative in Subtract questions and interaction Frequent between Educated people more from the focus on the competition and isolation This is Concepts Basic.

secondly: Learning Active

1 –Concept Learning Active:

And learning Active: As a term Back in Contract the last from Century Twenty And that Spread this Term between Educators And those interested In the matter Educational And it appeared in a way big in Beginnings Century atheistic Twenty (The good one ,2012) It is considered learning Active from Concepts Sophisticated And modern And it appeared In a way wide in the states United American then appeared in Europe And countries Multiple As DirectionA Educationally Contemporary.(charitable

,2018:22).

strategy network questions:

considered as strategy network questions from Strategies Learning Active Which Be questions she Basis To motivate activity Learner And make Learner Axis the operation Educational And from features network questions excitement Learner on Dialogue And discussion And interaction And subtract questions inside room the line She is Aims to to bear responsible Learning Self on road feelings Educated people With mastery on the answer minute on questions Than Make capacity Educated people on Subtract questions And own them Skill Adjust practical Learning And monitor it and this is for him Positive effects Deep For the learner(Ambo Happy And Haniya ;2016:187)..

steps to implement strategy network questions:

Composed strategy network questions from several steps Complete Employ it In a way Organizer And accurate from before the teacher that He is Wave For the process Educational And the learner He is Axis the operation Educational on road Share And interaction Active And it is done that With what It fits with material Biology With a purpose development skills Learning Self and more Collection I have students the line the second middle She sought help The researcher With experts And the specialists in this the field:

_Step The first: Divided The researcher Female students to Totals differentiated Consider Differences Individuality between Female students with to divide Role all student in the group in order to He is the job collective Between them.

_Step the second: Design The researcher network questions on the blackboard in her image Primary

_Step Third: after that Complete distribution group from questions on Totals that It was completed Divide it previously.

_Step Fourth: Done in This is amazing Step Requests from all Totals writing a question It is difficult on them Understand it on the shape that it was completed You design it from before the researcher.

_Step Fifth: when Finish from Kaaba Groups for Questions Then start phase the answer So she answers the group that It was completed Subtract the question on her in a way regular and circular from the group The first to the group the second and so on with rest Groups.

_Step Six: get up the school with help Female students to reach to the answer The correct one in Status non knowledge the answer on the question Subtracted

skills Learning Self:

Concept skills Learning Self:

It is side Cognitive Lost by custom (Najdi and on) she Processes that focus on Achievement Mental For the student approved on His speed Subjectivity in plural Locations that Wants Study it and understand it and its classification in a way deep and appreciation Bezel Its development and its progress in all part (Najdi and on (2004: 74).

I specified the researcher skills Learning Self in (skills Planning To study Subjectivity; skills the study Subjectivity; Use sources Learning; Skills the public) And it has benefited the researcher from Skills And classifications Previous With what Fit in with nature the sample And with His goals

Firstly: skills the study Subjectivity: Which Skill that He depends requester on His abilities Subjectivity And use several Techniques suitable to accomplish a task Educational And it exists skills Secondary she:

a-Use the map Mentality in Studies Subjectivity.

B-Use skills Working in finding Solution the problems Subjectivity.

C-Use strategy especially by reading in the study Subjectivity.

Dr-Use Skills the operation in the study Subjectivity.

secondly: skills Planning To study Subjectivity: And it is used on road This is amazing Skill Style the appropriate to work a task Educational And it is Accreditation on His abilities Subjectivity And use Effective For technology and it contains on several skills Secondary Which:

a-Planning Tasks Learning and How Manage it.

B-Skill Summing up from Content Scientific.

C-Skill How the quote and blogging and documentation from Magazines Scientific or the reviewer.

Dr-Skill ranking and organization the information and assembled.

Third: Use sources Learning Scientific: Which Skill that Back to her requester not the book School like the pictures the blackboard Maps Fees Graphics And for her A number from Skills sub she:

a-Use the library.

B-How Access to Sites e and use The Internet.

Fourthly: Skills the public and movable: Which group from Skills different the public that He should on requester Acquire it when completion His study and take advantage May it last in fields the job Which not Specific With a substance Study It includes group from Skills sub:

a-skills communication

B-skills Dealing with Computer Automatic.

C-skills the job in a team.

Dr-skills to solve the problems.

And-take the decision.

Y-skills Administration.

(Abu The honorable ones ,2013: 58-68).

the hub the second: Studies Previous:

1 –study (Phrygian ,2019): Title the study (Effect strategy network questions in Collection material Rhetoric I have students the line Fifth Literary And their direction towards it) I ran the study in Iraq-Baghdad/university Al-Mustansiriya/college Education-to divide the sciences Educational And psychological and it was Curriculum the study experimental as for stage Scholarship Junior high and tools search the test The collection and scale direction.

2 –study (Crazy Gaseous Sakr ,2020) Title the study (Effect strategy network questions According For capacity Mentality in power the control Cognitive in material Methods Teaching Sports For student's stage University) She was rewarded the study in Iraq and it was Curriculum search experimental on-stage University as for Tools the test The collection and scale power the control Cognitive.

Studies that dealt with self-learning skills:

1 - Jaber's study (2018): The title of the study (building a training program according to the differentiated education strategy and knowing the impact of the program on the self-efficacy of second-grade biology teachers and the self-learning skills of their students) The study was conducted in Iraq and the curriculum was experimental, the study tool was a self-efficacy scale and a test of self-learning skills.

2 **Al-Lahibi's study (2021):** Title of the study (The effect of using infographics on the achievement of fifth-grade primary school students in science and their inclination towards it). The study was conducted in Iraq and the approach was experimental. The study tool was achievement tests and an inclination scale. The results were superior to the experimental group over the control group.

the chapter the third

Firstly: Curriculum search

Adopted The researcher Curriculum search Experimental To study current to suit him for goals search and its procedures so take this Type from Curricula Experience Instrument To conduct in group Assumptions To reveal on nature Relationship between Variables the study and that on road study Attitudes Integrated that Busted In which Variables in all who are they While Except variable that Cares about researcher by studying Its effect (Suleiman ,2014: 138).

secondly: the design Experimental:

Prepare the design Experimental As the plan that He puts it on researcher to get on the information and data Scientific Necessary And for the answer on Hypotheses Zero specified in the study and to measure Effect Goals search and make sure from Its validity Adopted The researcher Type from the design Experimental Being plan Experimental In order to with acceptance Hypotheses or He rejected it

the group	Parity	Independent variable	Dependent variable	the test
Experimental	Chronological age calculated in months, intelligence test (Raven), previous achievement	Question network strategy	Self-learning skills	Self-learning skills test
Female officer		The usual method		

Third: Community search And I appointed him:

He means in society search he group from Individuals or the things or preparation that to bear Properties And the qualities itself and it can Analyze it and observing it Which Hopes Generalization Results on her (Melhem ;2010: 15). And it is formed Community search Present from Female students the line the second Average

Fourthly: equivalent My group search:

1 –the age Timeline Calculated In months.

2-Collection Academic the previous.

3-a test Intelligence (Raven).

4 - Self-learning skills.

Fifth: Adjust Variables Dhekelia not Empiricism

Sixthly: Accessories search

1 –to set Subject Scientific

• Chapter One: Classification.

•the chapter the second: how Classified Objects The brother.

•the chapter the third: Objects The snake Simple.

•aTo separate the fourth: kingdom the plants.

Seventh a tool search: Building a self-learning skills test: Self-learning skills are considered the second dependent variable in this research. Therefore, an appropriate test must be prepared to measure this variable for the female students of the main research sample. A test was built in light of following the following steps:

-the goal from the test: a test skills Learning Self when Female students the line the second Average.

B-examining on number from Tests skills Learning Self: after looking at the researcher on Literature Educational and Studies Related with Skills Learning Self Adopted The researcher on Aspects that I specified it study (Abu the honorable ones (2013: 58-68).

Preparation Formula Primary For testing: It was completed editing Paragraphs the test building on Concept Theoretical for Skills Learning Self And it has Include the test in his wording Primary (36) paragraph Objectivity With a reality (2) paragraph for every Skill Secondary from Type the choice from Multi Self the Four Alternatives three False And one correct Included This is amazing Paragraphs (Situations Scientific and Life General)

Indicators sincerity the test skills Learning Self: Prepare sincerity the test Property The most Importance from between features the test The good so whenever She was Indicators the test any His vocabulary Cross about him It is Reflect accurately Concepts that situation the test from Okay Measure it (age, And others,2010:189).

Honesty Virtual For testing:

It was completed an offer the test In his wording Primary on group from Arbitrators from With Experience And specialty in area Methods teaching Science was used The researcher The ratio Centenary And value Square Kay when degree freedom(1)And level indication(0,05)To analyze Responses Arbitrators on Paragraphs the test where I got consent Arbitrators on all Paragraphs And in percentage(88%-100%)like that Lost She was value(Ka2)function Statistically when degree freedom(1)And level indication(0,05)being the value Calculated Larger from the value Tabulation(3,84)So I kept Paragraphs the test(36)paragraph

•Application Reconnaissance the first to test skills Learning Self:

after Verification from Honesty Virtual For testing She got up the researcher by applying it for the time The first on a sample Author from (30) student for class the second Average

•Application Reconnaissance the second to test skills Learning Self:

after clarity Paragraphs the test and his instructions and knowledge Time Necessary To answer on him, I applied the researcher the test on a sample random Exploratory second Its component from (100) student from Female students the line the second Average.

•sincerity Building:

To verify from sincerity Building For testing It was completed account Factor Link between grades Female students the sample in all paragraph from Paragraphs the test and the degree the college for him Using Factor Engagement Pearson if ranged value Link between (0.232 –0.626)

•Factor Difficulty:

It was completed account difficulty all paragraph using equation Difficulty And he found that it ranged between (0.28-0.57)

•Factor Discrimination:

It was completed account Factor Discrimination for every paragraph from Paragraphs the test Using equation Factor Discrimination And it showed Results that value Factor Discrimination For paragraphs the test ranged between (0,30-0,74)

● **stability the test: It was completed account stability the test in two ways:**

1-road Retail Midterm: It was completed account Factor Consistency between half of me the test (Paragraphs Individuality and Paragraphs Marital) using Factor Engagement Pearson and it was Its amount (0,767) And it was done Correct it with an equation Spearman-Brown

2-Qudr-Richardson- (20):

● I have It was completed account Factor stability the test Using equation (Qudr-Richardson- (20) so I reached value (0,89) and he Factor stability acceptable from side the operation

Eighth/means Statistics: Adopted The researcher on Satchel Statistics (SPSS) to analyze the data from building the tool, achieving the research objectives, analyzing the results, arriving at the results and interpreting them, and the statistical methods of the current research can be presented.

the chapter the fourth:an offer Results And its interpretation

Firstly: an offer Results:

Results Related with Skills Learning Self.

And for making sure from investigation Goal search, it was completed a test health Hypothesis Zero the second nothing difference Dhu indication Statistic when level indication (0,05) between middle grades Female students the group Experimental Lati They study on according to strategy network questions and average grades Female students the group Female officer Lati They study in the way Ordinary in a test skills Learning Self.

results a test t-Test for two independent samples for the two research groups on testing the self-learning skills of the experimental and control group

the group	Number of female students	SMA	standard deviation	variance	Degree of freedom	T value		Statistical significance at the 0.05 level
						Calculated	Tabulation	
Experimental	30	27,60	4,26	18,18	58	3,438	2	function
Female officer	30	23,70	4,52	20,42				

size Impact:

used the researcher equation Square (Eta)For the extraction value size Impact(D) for the independent variable (question network strategy) in the dependent variable (self-learning skills). Conclusions:

building on Results that appeared You conclude the researcher following:

Teaching on according to strategy network questions for him Effect in to lift level skills Learning Self They have.

2. Conclusion and future scope

in a light what Reach out mechanism search from Conclusions maybe editing Recommendations The following:

1-necessity the performance in cycles Training For my teachers and teachers' material the sciences and in a way especially Biology on Use Strategies Modern in Teaching Such as strategy network questions

2-incentivize Angels Teaching on Use Methods Modern and Diverse And see on What is it new and stay away on Methods Teaching Ordinary the list on Indoctrination And memorization.

3-interest with teachers Especially My mentor the classes with development Capabilities Female students on Skills Learning Self.

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