

The effect of the technical learning method using the (DK) device to develop some football double kick skills for students

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Abstract

Some double kick skills are very important in the game of football, but the importance of not having a similar device. Research problem: Does learning by using the technique of mastering the device teach some double-kick skills? As for the goal, it was to identify the effect of the technical learning method by using the (DK) device to teach some double kick skills in the football game. Keywords: (professional learning style, DK device, double kick skills).

1-1- Introduction and importance of the research:

The double kick in the game of football is of great importance, and to benefit from it in football matches requires researchers to make more effort and attention at this stage by teaching students who are good at implementing these skills well through the method of mastering learning and invented devices that contribute to teaching some skills Double kick, in addition to that, teaching students through the safety provided by the invented device and increasing accuracy during contact with the ball and directing it during the flight phase leads to better performance, which leads to achieving distinctive results such as (handling, cutting, scoring) from here crystallized the importance of the research In applying the technical learning method using the (DK) device to teach some double kick skills, so that this method and the invented device are a tool in the hands of teachers to be used to improve students' implementation of these skills well.

1-2- The research problem:

There is no doubt that the preparation of distinguished students who have high accuracy and timing in jumping and flying upwards at the moment of kicking the ball in the air at an appropriate speed without causing injuries requires those in charge of the educational process to prepare teaching methods using innovative devices and scientific inventions aimed at the safety of students first and then change and diversification help to achieve This task is secondly, and the following question comes to our mind in order to teach some double-kick skills through the technical learning method prepared using the invented device. Therefore, the researchers sought to delve into this problem to find an objective solution to address this problem in a way that suits it in this field by applying the method of master learning using the (DK) device to improve some of the skills of the double kick and apply it to the students.

1-3- The research Objectives:

- 1- Recognizing the effect of the mastery learning method on developing some double kick skills in the football game for students.
- 2- Recognizing the effect of the masterful learning method using the (DK) device to develop some double kick skills in the football game for students.

1-4- The research areas:

- 1-4-1- **Human field:** first-year students / College of Physical Education and Sports Sciences / University of Al-Qadisiyah.

1-4-2- **Spatial domain:** Al-Qadisiyah University Stadium / College of Physical Education and Sports Sciences.

1-4-3- **Time domain:** Monday 4/3/2022 until Sunday 1/5/2022.

Chapter Two

2- The research methodology and field procedures:

2-1- **Research Methodology:** The researchers used the experimental method in the manner of two equal groups, due to its relevance to the nature of the problem.

2-2- Research community and sample:

The research community included (100) students for the first stage / College of Physical Education and Sports Sciences / University of Al-Qadisiyah. Accordingly, the researchers identified the current research community represented by students of the first stage, as the number of the sample was (20) students, they were divided into two experimental groups, the first (10) students , and (10) students for the second experimental group, and the sample ratio was equal to (20%) to the research community, and the experimental variable was introduced using the Double kick (DK) football device for the second experimental group, while the teaching of the first experimental group was limited to On the method of professional learning.

2-3- Means, devices and tools used in the research:

2-3-1- Means of collecting information: Arabic sources and references, the Internet, observation, open interviews and expert opinions, special forms for collecting test results.

2-3-2- Tools and devices used in the research: A football field. Legal footballs (20) balls. Dell laptop. The designed device is a double kick (DK) with a soccer ball. A whistle. An electronic stopwatch of Japanese origin, number (3). A medical scale for measuring weight, made in China.

2-3-4- Device (DK) (¹):

It is a sports device with self-mechanical rotational movements by the student himself with variable heights that serves the students and teachers in the lessons of the teaching methods subject, and it is multi-purpose to facilitate the process of teaching students in many sports and sports activities and practical subjects that need the process of jumping and flying to kick the ball, which is In the air, to avoid injuries or to feel safe and confident or need instant feedback in the game of football. There are also some skills or cases for some games that need to segment difficult skills such as the double kick (Double kick) with football from the flying position to provide a factor of safety and increase self-confidence and to avoid injuries, the use of the Double kick (DK) in football brings us to Optimum performance for games that require the body to be in a horizontal position at the moment of flight because it leads to optimally drawing the angles of the joints of the body working in technical performance, thus avoiding injury during the lesson or exercise.

1- Walid Samir Hadi, Ghaffar Saad Issa, Hussein Hamza Aboud: The Double kick (DK) device for football, a patent registered with the Central Organization for Standardization and Quality Control, Iraq, Baghdad, No. 6646, 2020.

The smooth and fluid rotation of the learners makes the learners feel the aesthetics and consistency of performance, and the third part of the device can be used as a base for the feet in order to put the feet on it and rely on to help jump and turn, and it is characterized by being very strong in practical terms and can be moved easily and can be used by parties Several of them (sports clubs, youth centers, sports and academic institutions and physical education colleges). And the picture No. (1) shows the double kick (DK) in a soccer ball.

Photo No. (1) shows the Double kick (DK) in a soccer ball



2-4- The research procedures:

3-4-1- Test name: Measurement of the accuracy of scoring a double kick in football: The implementation of the accuracy of scoring a double kick was filmed by means of a camera for the pre and post test, then the video was shown to three experts in the field of football to assess the score of experts *.

2-5- The exploratory experiment: The researchers conducted the exploratory experiment before going into the research procedures on 13/1/2021 on a sample consisting of (2) players from outside the research community in (3) afternoon, and the purpose of it was:

1- Identifying the obstacles that face the work during the experiment. 2- Check the validity of the device.

2-6- Field research procedures: The field research procedures consisted of the pre-test and the educational program used on the first experimental group and the device for the second experimental group, and then the test dimensional.

2-7-1- The main experiment: The main experiment was conducted on Monday 4/3/2022 until Sunday 1/5/2022, and it included the application of the educational program and the invented device.

2-8-1- Tribal test: The measurements and tribal testing of the research sample were carried out at ten o'clock in the morning on Monday 4/3/2022 in the playground of the Faculty of Physical Education and Sports Sciences. The conditions related to the test have been fixed in terms of place, time, tools used, method of implementation and the assistant work team for the purpose of achieving the same conditions or as close as possible to the conditions of the post-test.

2-8-2- The educational Program:

2-8-2-1- Professional Learning Method Group:

The professional learning method is applied by dividing the first experimental group into three levels (weak, medium, and good), and researchers relied in this division on the results of tribal tests for the accuracy of the skills used in the research only, which is included in the current study.

Then enough time is given to the weak group, to perform more attempts during the same unit, and the aim is to get them to the level of their peers who are good students.

As for the good group, their role is to help their weak and average colleagues, and the totals are sorted according to the level in each educational unit into (weak, medium, and good).

Additional lectures were given to weak students, and there were two lectures, the purpose of which was to correct and perfect the students' performance according to the error.

(120 minutes) for each educational unit, two units per week for a period of (4) weeks. The explanation was adopted to clarify the skill and how to teach it according to the technical learning method for each of the two experimental groups, taking into account the following:

1- Teaching the first experimental group by the method of technical learning.

*• Experts (Professor Amer Saeed Al-Khikani, Prof. Haider Karim Saeed, Prof. Muhammad Radi Abboud).

2- Teaching the second experimental group by a technical learning method, in addition to using the double kick (DK) device in football by the subject teacher. As for the researchers' work, it was limited to preparing the device for the second experimental group, supervising and teaching them, and raising it after completing the educational unit, and following up on the progress of the educational unit. Experimentation, controlling time, number of repetitions, and supervising the progress of work in all educational units.

3-8-3- Post tests: The post test of the research sample was conducted on Sunday 1/5/2022 after the completion of the period of application of the technical learning method and the (DK) device, which lasted (4) weeks, and the researchers were keen to provide the conditions for the pre-test And its procedures for testing and with the help of the work team.

3-9- The statistical methods used in the research:

After collecting the data and information that the researchers conducted the statistical analyzes (SPSS):

The third chapter: Presentation, analysis and discussion of the results

This chapter includes presentation, analysis and discussion of the results, after the researchers completed the collection of data resulting from the test used, which were placed in the form of tables because of the ease in extracting scientific evidence and because it is an explanatory tool suitable for research that enables us to achieve the objectives and hypotheses of the research in the light of the field procedures carried out by him. researchers.

3-1 Presentation, analysis and discussion of the results:

3-1 Presentation, analysis and discussion of the results of the pre and post test for the first experimental and second experimental research groups for some football double kick skills.

Table No. (1)

It shows the results of the pre and post tests for the first experimental and second experimental groups.

Groups	Skills	Meas. Unit	Pre test		Post test		T value calculated	Level of indication
			S	±A	S	±A		
1 st experiment	double kick	Degree	4,600	0,516	5,700	0,675	0,000	Moral
2 nd experiment	double kick	Degree	4,500	0,527	7,300	0,483	0,000	Moral

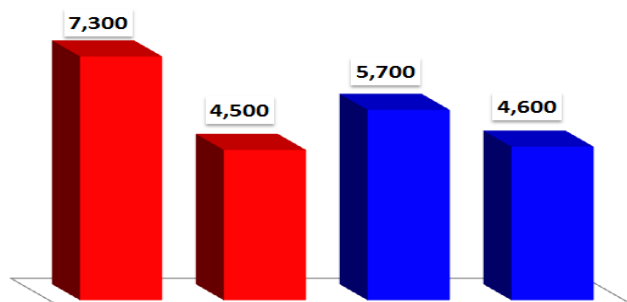


Figure (1) shows the arithmetic mean values of the pre and post tests for the first experimental and second experimental groups to implement the accuracy of soccer double kick scoring

3-2- Discussing the results of the pre and post tests for the first experimental and second experimental research groups.

By noting Table (1), we find that there are significant differences in the test results of some double kick skills for the pre and post test for the first and second experimental groups. The researchers attribute this development to the two groups to the use

of the technical learning method through the subject teacher because of its effective impact in acquiring the ability to implement kicking the ball in the appropriate manner, as putting students in a state of education and suspense, which led to increased movement, repetition and effectiveness in the phase of flight and kicking the ball. Towards the goal or for cutting, scattering or handling, which in turn led to the development of flight performance in the air due to the availability of the element of safety.

The researchers believe that one of the reasons for the development of the research sample is that the educational units contained diversification through changes in the form of exercises, whether they were distances, directions, and angles.

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3-2- Presentation, analysis and discussion of the results of the two post tests for the two experimental groups.

Table (2) shows the results of the post and post tests for the first and second experimental research groups.

No.	Skills	Pre test		Post test		T value calculated	Level of indication	Result
		S	±A	S	±A			
	double kick	5,700	0,675	7,300	0,483	0,000	6,096	Moral

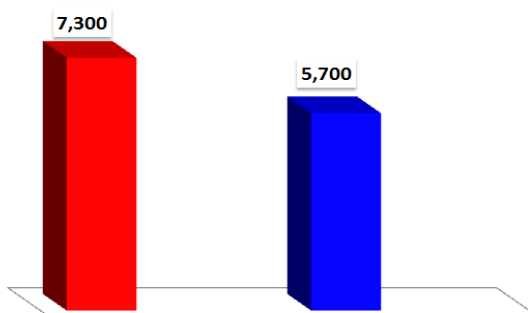


Figure (2) shows the arithmetic mean values of the post and dimensional tests of the first experimental and second experimental groups to implement the accuracy of soccer double kick scoring

By noting Table (2), we find that there are significant differences in the results of the test of some double kick skills for the post and post test for the first and second experimental groups, which in turn used the invented device in addition to the masterful learning method. The researchers attribute the reason for the development to the fact that the educational work led to the formation of many directions desired by the research sample, which are good directions towards decision-making to solve problems and know the reasons for learning to kick the ball in the appropriate part, the timing of the flight stage, the timing of the appropriate speed and directing the ball at the moment of its launch, in order to reach the performance The good. The researchers also attribute that the reason for this development is due to the fact that students in this device perform better due to the availability of the element of safety to prevent the student's body from colliding with the ground, and the thrill and excitement contributed to providing a new incentive for more repetitions, as well as the implementation of flight through the device in a specific way and in other words The goal of education has been determined by the teacher in advance and through that the students work during the lesson. As well as diversifying the angles of the device used in the research, such as distance and proximity to the goal, and other exercises that make the student more able to perform the flight and kick the ball in the right part and the right place.

The researchers also attribute the reason for the preference of the second experimental group to the effectiveness of the technical learning method with the invented device, as the goal sought by the method is to modify the level of performance in line with the capabilities of the research sample in order to obtain better education and reach a good level for the accuracy of kicking the ball for the double kick.

the fourth chapter

4- Conclusions and recommendations:

4-1- Conclusions:-

1- The use of the technical learning method in learning has a very great and effective effect on the development of implementing the accuracy of kicking the ball for the double kick in the football game.

2- The (DK) device had a positive effect in the development of the flight phase, the accuracy of implementation, and the availability of appropriate speed for the benefit of the experimental group, and this was indicated by the moral differences in the values of the variables.

3- The use of the (DK) device contributed to providing safety and significantly in reducing injuries or hitting the ground for students in the implementation of the double kick in the football game.

4- The use of the (DK) device helped reduce the effort made by the teacher in the process of correcting errors and giving the appropriate feedback.

5- Appropriateness of the technical learning method using the device and in favor of the second experimental group.

4-2- Recommendations:

1- It is important to adopt the technical learning method in learning other skills in practical lessons in the game of football, especially the difficult skills to learn that cause injuries at the moment of flight.

2- Using the double kick (DK) in football to develop the flying phase of the double kick, because it helps in achieving the desired goal.

3- The necessity of the device that invented the double kick (DK) in football in developing the stage of kicking the ball in the air, especially for students in the football lesson.

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3) Walid Samir Hadi, and others: Double kick (DK) in football, a patent registered with the Central Organization for Standardization and Quality Control, Iraq, Baghdad, No. 5495, 2020.



(19)

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(73) اسم صاحب البراءة : الذات اعلاه

(74) اسم الوكيل :

(54) تسمية الاختراع:

جهاز الركلة المزدوجة (DK) Double kick
بكرة القدم Device Double kick Football

منحت هذه البراءة استناداً لأحكام المادة (21) من قانون
براءة الاختراع والنماذج الصناعية والمعلومات غير المفصح
عنها والدوائر المتكاملة والأصناف النباتية رقم (65) لسنة
1970 المعدل وعلى مسؤولية المخترع.

د.جاسم علي داود
مستشار
الجهاز

Annex (1)
Achievements

Week : First

Educational unit : First 1- Educational objective: Teaching the accuracy of direct free kick scoring in soccer from the bottom of the jumping wall

No. of students :24

Day & date : Thursday (27/04/2021)

Location : The playgrounds of the College of Physical Education and Sports Sciences - University of Al-Qadisiyah 2- Educational objective: honest competition and respect for the competitor

Time : 90 minutes

No.	The unit sections	Time	Groups	Activities	Organization	Notes
Main section	preparatory division	Introduction 5M. General warm-up 5M. 10M. - Special warm-up		- Taking out the tools, students standing and taking absences, notes about the unit. Stand - walk - light jog with alternately rotating the arms. - Jog with raised knees - Regular jogging - Flexibility exercises. - Special preparation to serve the applied part of the main section	<pre> x x x x x x x x ↓ ↓ ■ ■ ■ ■ ■ ■ ■ ■ Group (2) x x x x x x x x ↓ ↓ 1 1 - - 1 1 - - 1 1 - - 1 1 </pre>	Ensure proper warm-up is performed Emphasis on the application of the comparative competition method. - The two groups apply the exercises set at a time of (10) minutes for each exercise. Confirmation of correct performance. Providing feedback to correct errors. When giving exercises, the increase in the number of repetitions for each group and according to the level is taken into account within the time limits allocated for the educational unit.
	educational part Application part	15M. 50 M.	Group (1) Group (2)	- General information about the skill of the direct free kick in football from the bottom of the wall and how to perform the component parts of that skill with mentioning the most common mistakes, emphasizing the place of the ball kick, the speed of performance, how the parts of the body and motor performance, and observing the speed of the wall jumping by placing the pivot foot next to the ball a distance 10 cm, 20 cm or 30 cm, according to the distance of the ball from the football goal, followed by the kicking foot, while maintaining a healthy body position. 1 - From the standby position, the student begins to move away from the position of the ball according to the distance he wants from (3 m - 7 m) and with a deviation and the process of kicking the ball is with the preferred foot. The jumper. As for the place of contact with the foot, it is the inner upper part of the preferred foot. The ball must be sent at an angle if the side is far from the goalkeeper to ensure that it is not seen at the moment of departure, and here is the emphasis on greater accuracy. 1 - From the standby position, the student begins to move away from the position of the ball according to the distance he wants from (3 m - 7 m) and with a deviation and the process of kicking the ball is with the preferred foot. The jumper. As for the place of contact with the foot, it is the inner upper part of the preferred foot. The ball must be sent at an angle if the side is far from the goalkeeper to ensure that it is not seen at the moment of starting, and here is the emphasis on accuracy as well, but adding a little speed to the ball is greater than the first exercise. 3 - At the end of the educational unit, a student from group (1) competes with a student from group (2) with the performance they have learned in order to compare to see who is better, and so on against the rest of the students of the two groups.		
Final section		5 M.		- General body calming exercises, returning the body to its natural state. Students stand in an arrangement to perform the departure salute.		