ЖАС ЗЕРТТЕУШІЛЕРДІҢ ҒЫЛЫМИ ЕҢБЕКТЕРІ
НАУЧНЫЕ РАБОТЫ МОЛОДЫХ ИССЛЕДОВАТЕЛЕЙ

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Amanbayeva, D.B.
3rd year student of specialty «5B011900 – Foreign language: two foreign languages»
Kudritskaya, M.I.
candidate of pedagogy,
associate professor of the department of philology,
KSPU named after U. Sultangazin,
Kostanay, Kazakhstan

METHOD OF DEVELOPING A LINGUISTIC RESEARCH ALGORITHM

Abstract
The article presents a step-by step approach to developing an algorithm for a linguistic research, taken as a part of English teachers' professional training. Tips for building a research plan are given on the example of the project with the objective to find and analyze idioms in the songs of the group «Queen».
Key words: algorithm for a linguistic research, English teachers' professional training, research plan.

1 Introduction

Scientific research is an integral part of English teacher training process that requires certain skills. These skills are aimed at systematizing the young trainee teachers' linguistic knowledge on the one hand, and contribute to their professional qualification on the other. Having stepped into the teaching profession, graduates will have to supervise their own students' linguistic research, so it is essential that they get this «inside knowledge» in developing their own research algorithm. Since theorizing about it does not really help, we decided to present an example of a scientific project carried out in the course «Project Methodology in Basic School» in the spring semester of 2019-2020 academic year, entitled ANALYSIS OF ENGLISH IDIOMS AND IDIOMATIC EXPRESSIONS IN THE SONGS OF THE GROUP «QUEEN».
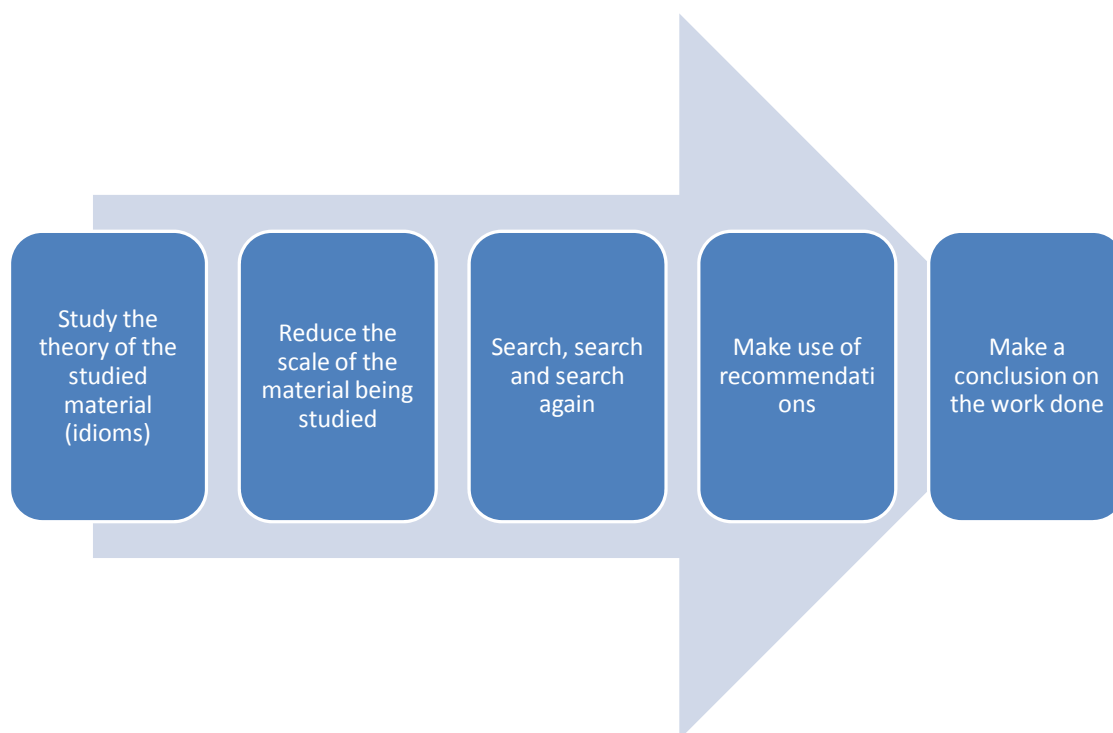
2 Materials and Methods

An algorithm is an integral part of any work [1]. In other words, an algorithm is a list of rules to follow in order to solve a problem. Algorithms need to have their steps in the right order. When you write an algorithm the order of the instructions is very important. Without a specific list of actions and a plan we cannot do anything, this also applies to a scientific project [2].

Of course, you start your research with theory investigation, and that is a more or less clear process for an undergraduate student. Once you have figured out what idioms are, why they are needed, and how people use them in everyday life, you have to find idioms in the songs of the group «Queen». Now a big question arises:

How to find idioms in the songs?

Here are some steps you can take to develop your own algorithm for the practical part of your research (Picture 1):

Picture 1 – Steps to develop algorithm for the practical part of research

3 Results

Let's have a closer look at the steps above and see what they actually mean.

Study the theory of the studied material (idioms).

In any scientific work or project, it is very important to build on the flow of material. That is, before proceeding with the search and implementation of the practical part, it is necessary to carefully study the theoretical aspects. For example, when we want to make a salad, we don't start to eat ingredients that have not yet been cut into a plate. Of course, we can eat them, but we won't recognize the taste of the dish itself, because until the end we did not complete the work. Therefore, in scientific work, it is necessary to consider the basics and try to understand WHAT EXACTLY you will write.

Make a plan for all your work. No real good term paper is written in a day. Therefore, in order to make it more convenient to divide your work into parts and do small pieces every day, make your own plan (project plan and plan for your intended work with the project). Following this plan, you can systematize the data both in your head and on paper.

Pay attention to the requirements. All works have different requirements, which must be taken into account for a good result. For example, in many term papers they require the use of sources of strictly recent years issues, that is, modern, and not books from past centuries.

Following the developed plan, *start looking for material.* Read more, select and sort the information you need.

Once you find the necessary information, it remains to make adjustments. You should *arrange the data in the text of the theoretical part*.

Read the text carefully and analyze what you read. This is not necessary, but only in this way will you be able to thoroughly understand what is important to you and what you will take into account when searching for idioms.

Reduce the scale of the material being studied.

It is obvious that to seek linguistic aspects (idioms) in all the songs of the world is unrealistic. Therefore, we need to narrow the spectrum of your choice and make it as accurate as possible. So the reader will be more interested in reading and analyzing the material. As they say: «Between two stools one falls to the ground».

You need *to choose the theme of songs that will unite them*, that is, take songs with a common meaning. For example, you can choose female songs having a feminism context or just songs about love or friendship.

The topic should first of all interest you. But besides this, it is advisable that she interest those who will read your work. And the point is not even its relevance.

It can also be dedicated to some historical event. For example, songs about the war; from here you can take songs about patriotism or songs dedicated to the independence of the country.

In addition, we can *take songs of the same time*, for example, songs of the stars of 2000s (Britney Spears, Eminem, Pink) or fresh songs that are in the top in 2020 (Billie Eilish, Selena Gomez, Luis Fonsi).

Finally, you can use the *songs of one artist or group*.

Search, search and search again.

Most of the work is already behind us, it remains to state the material you have collected, to properly arrange it. If you have quality literature, then writing a work will not be difficult, at least in the first part. When setting out the material, try to explain the essence of the issue in your own words, as you see and understand it. If you are quoting material, be sure to indicate the sources and authors.

Now your task is to be a researcher. You will again have to look for a lot, but not just information, but specific idioms in those songs that you have chosen to study. Remember one rule: *the more you find, the better* (that is, the more choices you have).

Listen to the whole song, try to find a clue in every line, because idioms surround us literally everywhere. And then you will see a new view of this or that song.

Listen to songs a few times. Practice makes perfect. Each time you will find something new for yourself and discover new idiomatic expressions.

Do the search for each idiom you find. We are sure you will find a lot of interesting things: its history, origin and use in different contexts.

Seek only reliable information. Unfortunately, today many people are looking for everything on the Internet, but not all Internet sources are correct. This is due to the fact that almost everyone has access to the World Wide Web and many publish false information there. Therefore, preference should be given to books and scientific articles.

Moreover, based on the classification of idioms and methods of use, *you can determine the meaning and role* of these idioms in certain songs. For example, we also drew analogies with other songs to fully interpret that idiom.

Make use of recommendations.

Analyze the work done and draw conclusions not only for yourself, but also for those who will read your work.

It is best to show the results evident. Use charts, tables and diagrams in which you can share your findings.

Think about whether you included everything in your work that you originally wanted.

At the end, you need to go back to the beginning. Reread your introduction, find goals and objectives. If you have achieved all the goals that you set for yourself at the beginning of your work, then you are on the right track and your search has been well done. Otherwise, you need to correct the errors in order *to reach the goals*.

Consult with classmates, and then with the teacher. Listen to their recommendations on your work and try to make it a note and add or delete something.

__Make a conclusion on the work done.__

After the main part of the work is done: theoretical aspects are covered, calculations are made, recommendations and suggestions are given, you can *continue to write a conclusion.*

Think about how you will present your work. Prepare a good presentation to protect the project. Write your speech, what you say during the presentation of the project.

Pay attention to the design. Does everything meet the requirements?

Check again. Verification will never be superfluous in the works of such a plan. Even if it seems that everything is almost perfect, you are sure to find something that needs to be fixed.

Be critical of yourself. After you have finished writing your conclusions, try to make a self-assessment of your work.

4 Discussion

Mind, there should be a connection between the project hypothesis and analysis algorithm:

Hypothesis is a statement about the given problem, as it is known. Hypothesis testing is a statistical method that is used in making a statistical decision using experimental data. Hypothesis testing evaluates two mutually exclusive statements to determine which statement is most supported by sample data. Each hypothesis is an idea to be tested; every idea that's confirmed or rejected informs you about your progress. You have to use hypotheses to drive meaningful experimentation. Consistent hypothesis-driven experimentation according to an algorithm helps you make meaningful conclusions as to whether your hypothesis is correct or wrong. When we say that the findings are statistically significant, it is thanks to hypothesis testing.

5 Conclusions

To summarize, it is necessary to say that these rules at first glance are very simple and obvious. However, it is quite important to fully complete each point of the tips cited above. Following this algorithm, it is possible not only to write a scientific project, but also to learn, to systematize a work plan and find the maximum of useful things there.

References
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АМАНБАЕВА, Д.Б., КУДРИЦКАЯ, М.И.
ЛИНГВИСТИКАЛЫҚ ЗЕРТТЕУ АЛГОРИТМІН ҚҰРАСТЫРУ ТӘСІЛІ

Мақалада ағылшын тілі мұғалімін кәсіби даярлаудың бөлшегі ретінде лингвистикалық зерттеу алгоритмін кезең-кезеңмен құру тәсілі келтірілген. Оқу жоспарын құруға арналған кеңес-тер мақсаты «Queen» тобының ән мәтіндеріндегі идиомалық сөздердің бейнелілігін білдіру және талдау болып табылатын жоба мысалында берілген.

Кілт сөздер: *лингвистикалық зерттеу алгоритмі, ағылшын тілі мұғалімінің кәсіби дайын-дығы, зерттеу жоспары.*

АМАНБАЕВА, Д.Б., КУДРИЦКАЯ, М.И.
МЕТОД РАЗРАБОТКИ АЛГОРИТМА ЛИНГВИСТИЧЕСКИХ ИССЛЕДОВАНИЙ

Статья представляет пошаговый подход к построению алгоритма лингвистического иссле-дования, предпринимаемого в качестве части профессиональной подготовки учителя английского языка. Советы по подготовке плана исследования даны на примере проекта, целью которого является нахождение и анализ идиоматических выражений в текстах песен группы «Queen».

Ключевые слова: *алгоритм лингвистического исследования, профессиональная подготовка учителя английского языка, план исследования.*