

Research and Application on College English Vocabulary Teaching based on Mind Map

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Abstract: Vocabulary is the basic unit of language, which maintains both speech and grammar and is important for understanding language and verbal output. There are many problems in the current college English vocabulary teaching. The teaching mode based on mind map is an effective method to solve these problems. Based on constructivism theory, knowledge visualization theory and cognitive processing hierarchy theory, this paper analyzes the basic characteristics of mind map, studies the structure of English vocabulary mind map, and gives the ideas of college English vocabulary mind map. Making full use of mind maps can stimulate learners' initiative and creativity. While improving the effectiveness of English vocabulary learning, it also promotes the learners' thinking ability and learning ability.

1. Introduction

Mind map is a tool based on the association mechanism, using techniques that emphasize both text and image, combining elements such as words, pictures, symbols and keywords, combing the relationship between knowledge and presenting knowledge networks. The creation of mind maps is consistent with the explosive search for new connections in the brain, which is represented by a tree structure and is an effective graphical tool for embodying radioactive thinking. The core keywords in the mind map represent the central content of the mind map. The important information is circulated as the backbone from the center image. The secondary information is marked on the small branch that is differentiated from the trunk. Each branch diverges outwards, and finally will form a non-closed node structure. Mind map is a graphic method based on schema theory, which exerts the respective functions of the left and right brains, and uses the laws of memory, reading and thinking to help people balance the development between science and art, logic and imagination, thus opening up the human brain with unlimited potential. In the process of using mind mapping to conduct knowledge learning, learners use the functions of the left and right hemispheres in a subtle way, combing and communicating the knowledge learned, and effectively organizing them in a visual way to link between knowledge points. It reveals the connection between knowledge points and forms a network of knowledge. The resulting cognitive schema facilitates understanding and memory, thus promoting the formation of long-term memory.

Vocabulary is the basic unit of language, which maintains speech and grammar and is the building cornerstone of language. The information in the vocabulary far exceeds the amount of information in other parts of the language and is important for understanding language and verbal output. With enough vocabulary, even if you don't understand the language structure, you can say a lot of second language. The English linguist D. Wikins once thought: "Without grammar, people can express very few things. Without words, people cannot express things." Learning English in a country lacking an English environment, leaving high-efficiency vocabulary learning, the mastery of language knowledge cannot be discussed, and the development of communicative competence will become passive water. Therefore, vocabulary is a main line of the English teaching process, which runs through the entire English teaching. The effect of vocabulary teaching has an important impact on students' English literacy and English proficiency.

At present, English vocabulary teaching usually uses the following methods: comprehensive

memory method to mobilize the whole body's sensory organs to participate in memory activities. Sum up memory method, easy to confuse words to summarize, focus on emphasizing and explaining. Scene memory method, create various environment to achieve the purpose of assisting students' memory. Associative memory method, full use imagination to guide students to recall their related vocabulary. Classification memory method, because different attributes and different topics to classify the vocabulary. Each method has its own advantages and disadvantages, and cannot solve many problems in vocabulary teaching. The teaching mode based on mind map is an effective way to solve the problem of college English vocabulary teaching.

2. Problems in College English Vocabulary Teaching

There are still many problems in the current college English vocabulary teaching, which are highlighted in the following aspects: First, excessive reliance on teaching materials and lack of innovation. Textbooks are an important resource for vocabulary teaching and an important reference standard. However, many teachers use vocabulary teaching, rely too much on teaching materials, and are accustomed to focusing on the vocabulary in the textbook. It is easy to cause students' resentment and rejection, no innovation, no breakthrough. Teachers are reluctant to use the new teaching mode teaching methods. Students lack reasonable vocabulary learning habits, and teachers are unable to give guidance and help. Second, the teaching methods are boring and cannot mobilize enthusiasm. In the instilled education mode, teachers are busy writing books in the classroom, students are busy taking notes, and there is a lack of interaction between teachers and students. Teachers can only explain the meaning and usage of vocabulary, and cannot create opportunities for students to understand and experience. Students feel that English vocabulary learning is boring and it is difficult to integrate vocabulary. Third, the explanation is not exhaustive and lacks context. Vocabulary can only be remembered if it is embedded in the context, so that it can be easily remembered. When some teachers explain vocabulary, they only pay attention to the meaning of vocabulary and related collocation. The cultural knowledge involved is rarely mentioned, and the relationship between different vocabulary and the linguistic features of different lexical meanings are ignored. The lack of context has caused students to have difficulties in understanding and using vocabulary. Fourth, emphasizing rote memorization and lack of in-depth understanding. Understanding is the foundation of memory. Teachers will ask students to memorize and memorize all English vocabulary, ignoring the scope of use of vocabulary and rules of use, as well as differences in thinking and culture with Chinese. The students' memory is strong, but the memory is not deep, and memory fatigue occurs, which is confusing for similar or similar words.

3. Basic Characteristics on Mind Map

Mind map is a method of emphasizing radioactive thinking. The radioactive structure of mind map reflects the natural structure of the brain. Mind map provides humans with a graphical tool for effective thinking and can unlock the unlimited potential of the human brain. The mind map has four basic characteristics: the focus of attention is clearly concentrated on the central figure; the backbone of the subject is radiated from the central figure as a branch; the branch consists of a key figure or a keyword written on the line that produces the association. The less important topics are also represented in the form of branches, attached to higher-level branches. Each branch forms a connected node structure. Mind mapping is the key to grasping things. It is necessary to find connections with things through association and imagination, and painting the process radioactively with images and colors. When drawing mind maps, there are new ideas, new discoveries and new feelings, which stimulate thinking and broaden ideas. Through continuous stimulation and training, the ability to accept new things will also increase, followed by the improvement and expansion of memory. Draw the feature description of the mind map into a graphic, as shown in Figure 1. This is a graphic with only two levels of structure, and the four main branches correspond to four basic features. At the same time, the features of each feature are decomposed as supplementary secondary branches. In order to visually illustrate the role of the comment box branch, two comment box

branches have been added to the figure.

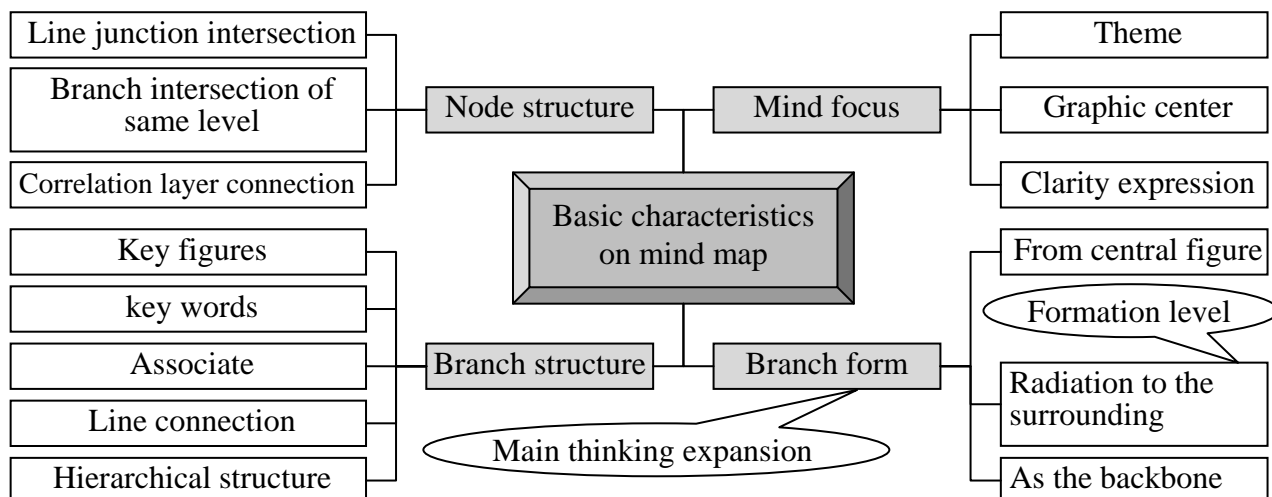


Fig. 1. Basic characteristics on mind map

4. Structure Types on Mind Map of English Vocabulary

Before the English vocabulary mind map is drawn, it is necessary to analyze the vocabulary composition and meaning. After thinking and reprocessing, different mind maps are designed according to different types of vocabulary. First, the dismemberment map. The dismemberment diagram dismembers the central image in a graphical way, refining multiple words, making it easy to find and apply at any time and quickly. When drawing the mind map of the dismemberment diagram, the teacher can first hand over the drawing task to the student. The student draws the learned vocabulary into thinking according to the divergent thinking of the demented body given by the teacher and the old knowledge already in the brain to combine with the mind map. Dismemberment maps can also be used to analyze the placement of houses, maps, and buildings. The center of the dismemberment map is a picture. There are no nodes on the parts of the picture that need to be dismembered. It is easier to use the hand-drawn mind map. Second, the level map. Hierarchy charts are used to show hierarchical relationships and affiliation between vocabularies. The hierarchical map represents the affiliation between the upper and lower levels. It is not possible to change the position of the vocabulary in the picture. Students can clearly grasp the logical relationship between vocabularies and deepen the memory effect. Family personnel relations and general classifications can be represented by such figures. When drawing a mind map such as a grade map, the teacher gives the first level vocabulary, guides the student's second level vocabulary, and the remaining vocabulary association task is given to the student to solve the problem by diverging thinking. The third one is the radiation map. The radiation pattern is spread out around the central vocabulary to other related vocabulary, and the whole appears as a radiation state. In the radiation map, because of the synonym, only the Chinese interpretation is given, which is not enough for the students to accurately distinguish and bear in mind. Teachers need to guide students to add a typical example sentence after each vocabulary to distinguish. The students can fully understand the differences between vocabularies, and lay the foundation for the accurate use of vocabulary in specific contexts.

5. Drawing Ideas on Mind Map of College English Vocabulary Teaching

The English vocabulary mind map mainly uses the law of storing knowledge in the human brain, and reproduces the relationship between vocabulary by visual means, which is convenient for learners to better understand and remember. Based on the mind map, drawing the mind map is the key link in the college English vocabulary teaching. It requires students to master and use it. The sketch is as follows: First, keywords, also called central vocabulary or node vocabulary. The key

words are the vocabulary in the syllabus, or the vocabulary based on the node vocabulary. The mind map of English vocabulary is a closely connected vocabulary network, and between vocabulary and vocabulary are connected by some kind of association. Second, the line connects the line between the vocabulary and the vocabulary. The brain's thinking is not straight, curved, and branched, just like a tree shrew, which makes the vocabulary's mind map more visual and more attractive to students. Third, the color, the rational use of color, can highlight the key points. Learners quickly grasp the central vocabulary. The brain is very sensitive to bright colors, and the focus is on bright colors to add to the impression. Fourth, the image can better explain the meaning of the vocabulary and stimulate the memory function of the right brain. Add appropriate animations to show subtle differences between vocabularies and enhance the stimulation of the brain so that the brain can remember words more vividly. Fifth, imagine that things and things are connected to each other, and knowledge and knowledge are also interrelated. Imagination is a basic form of thinking and a method of memory. In the process of learning knowledge, the imagination is higher, and the memory effect will be much better. The more Lenovo dimensions, the more you can enhance your memory. Sixth, annotations, descriptions between vocabulary and vocabulary are easy to learn and understand. Labels can be words, images, or simpler words.

6. Conclusion

Integrating mind map as a tool for knowledge construction into English vocabulary teaching can transform the teaching mode of passive explanation and instilling knowledge into a learning mode of active thinking and actively constructing knowledge. The teaching of college English vocabulary based on mind map has the following meanings: First, the use of mind map to expand the amount of information of known vocabulary. An English vocabulary usually has multiple meanings. When the same word appears in another language, it may become a new word. For vocabulary teaching with rich information, we can use the mind map to construct a clear brain map framework to assist effective memory. Through the brain map framework, summarize the meaning of this vocabulary and use a more flexible and simple way to remember. It not only improves the learning efficiency, but also mobilizes the enthusiasm and initiative of the students. Second, use the mind map to familiarize yourself with English affixes and roots. The "affixation method" is a very effective method and way to generate English words. It is a branch of the "derivative method". By means of grammatical positions, affixes constitute new words. This new word generated by the affixation method is also called a derivative word. Mastering English roots and affixes is one of the effective ways to expand students' vocabulary reserves. Therefore, it is very important to help students learn English roots and affixes by means of mind maps. Third, use the mind map to distinguish between synonyms and synonyms. English vocabulary is particularly rich, and there are many synonyms. How to distinguish effectively and correctly choose words and words becomes a difficult problem for English learners. From the mutual constraints and interrelationships between vocabularies, through the mind mapping method, the synonym is placed in the whole vocabulary system to distinguish, and then continuously guide the construction of the "brain map" of different vocabulary, which can improve the vocabulary memory and learning efficiency. It also enhances creativity and organizational skills in the learning process. Drawing a mind map is a process of thinking activities of a student. The teacher guides the student when he draws the mind map, providing divergent ideas and directions instead of replacing them. Only when the students' thinking is truly "flowing" can the students' vocabulary memory problems be fundamentally solved. Making full use of mind maps can stimulate learners' initiative and creativity. While improving the effectiveness of English vocabulary learning, it also promotes the learners' thinking ability and learning ability.

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