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Research on Fragmentation Learning of Primary School Chinese Teachers Based on WeChat

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Abstract

Teacher learning is characterized by informal learning and lifelong learning. Mobile devices and personal space in the information environment provide convenient conditions for the professional development of teachers. China's WeChat uses smart phone terminals as a platform to realize fast and two-way communication of voice, video, pictures, text, location and other information through the network. WeChat friends circle function, users can publish text, pictures and videos at any time, and become a record of life, A handy tool for sharing information with friends. This study uses case study methods, using Python and third-party library jieba, to analyze the text information of a primary school Chinese teacher WeChat friends circle, and assist in interviews and other methods to study the impact of fragmented learning on the professional growth of primary school Chinese teachers. Teachers can consciously improve their moral cultivation, establish a lifelong learning conviction, focus on their own professional development, be good at reflection, and actively carry out teaching reform. This leads to the general conclusion that teachers have a high degree of professional development consciousness and are practitioners of lifelong learning; fragmented and mixed learning is the most important form of learning for teachers; reflection is the best way for teachers to grow; innovative practice To be a smart teacher is the goal of the teacher.

Keywords: fragmentation learning; primary school teachers; professional development; case studies; WeChat.

1. Introduction

In addition to rich subject knowledge, pedagogical knowledge, and technical knowledge, teachers in the information age must also integrate these knowledges, and finally form Technological Pedagogical and Content Knowledge (TPACK), with high information literacy. The highly developed education field with informatization has core competitiveness; it is necessary to be a smart teacher to deeply integrate information technology and curriculum to realize innovative teaching and intelligent teaching. Teacher growth is a gradual process. The formation of TPACK knowledge, in addition to the necessary training, special seminars, teaching practice, the important way is self-learning, and constantly reflect, summarize and improve in practice.
Teacher learning is characterized by informal learning and lifelong learning. Professor Jiao Jianli of South China Normal University, in the MOOC course of "Five Practices of Informatization Teaching Ability" opened by MOOC platform of Chinese University, summarizes the teacher learning methods into five ways: learning from peers, learning in practice, learning in reflection, Learn from the online practice community and use MOOC to promote teacher professional development. The video open class, MOOC, etc. provide high-quality educational resources for teachers’ learning, making it possible for "the world's famous teachers are all teachers"; the teachers community to discuss, exchange, share tacit knowledge, develop common practices, and use collective wisdom to obtain teachers. Personal explicit knowledge; social software, such as blogs, QQ logs, WeChat friends circle, etc., provides electronic portfolios for teachers to grow up. Teachers use these tools to describe teaching events, record learning content and experience, and reflect on teaching problems. It has become an important method for the personal growth of teachers in the information age.

This study, through the method of case study, assisted by interview method, using Python and third-party library jieba, analyzed the post content of the primary school Chinese teacher WeChat friends circle, refining the problem, in order to make the case study have universal significance and value.

2. Research design

2.1 Case selection

According to the principle of maximum information volume, high information density and intensity, and easy to popularize the conclusion [1], the author chose this case, which has the following characteristics: First, middle-aged Chinese teachers have certain teaching and life experiences; Second, from rural teachers to teachers in the city, they have profound feelings and experiences of educational change; third, they have the spirit of eagerness to learn and reflect; fourth, they have higher information literacy. This case is both universal and typical.

Through interviews, QQ, WeChat, etc., the author has a deeper understanding of the research objects. In the narrative, in order to follow the principle of confidentiality, the letter C is used instead of the real name of the research object. C, middle-aged male, bachelor degree, engaged in primary school Chinese teaching for 20 years, loves tourism and literature, is gentle and kind.

2.2 Research Data

Real data is the basis of case studies. Subject to objective conditions, this study collects data by:

(1) Posting file records of WeChat circle.
(2) Teaching research results, including published papers, award-winning materials, etc.
(3) Student works, including newspaper reports, publicly published essays, etc.
(4) WeChat, QQ exchange and interviews.

2.3 Research dimensions

In February 2012, the Ministry of Education issued the "Professional Standards for Primary School Teachers (Trial)", from three dimensions, 13 fields and 58 basic requirements. Three dimensions:
professional philosophy and professional ethics, professional knowledge, professional competence. 13 areas include: professional understanding and understanding, attitudes and behaviors towards primary school students, etc. The 58 basic requirements include: implementing party and state education policies and policies, and observing education laws and regulations, etc. [2]. Therefore, this study refines the research content from the professional standards of primary school teachers, and studies the impact of fragmented learning on the professional development of primary school teachers as much as possible.

3. Data statistics and analysis

In the WeChat circle of friends launched in 2012, users can post texts, pictures and videos, and become an essential tool for modern life in recording life and sharing with friends. From July 31, 2015, in the nearly three years ended June 30, 2018, Teacher C has posted 3,303 articles in the WeChat circle, 2,746 reprints, and 557 original posts.

In order to further analyze the content of the post, the author uses Python and the third-party library jieba to count the keywords in the title of the article sent by the circle of friends, excluding the interference words such as "one" and "this is", before the high-frequency word. The results of 30 people are shown in table 1.

<table>
<thead>
<tr>
<th>Key word</th>
<th>Frequency</th>
<th>Key word</th>
<th>Frequency</th>
<th>Key word</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>child</td>
<td>370</td>
<td>what</td>
<td>70</td>
<td>2015</td>
<td>46</td>
</tr>
<tr>
<td>Parent</td>
<td>138</td>
<td>own</td>
<td>69</td>
<td>sure</td>
<td>43</td>
</tr>
<tr>
<td>teacher</td>
<td>235</td>
<td>composition</td>
<td>68</td>
<td>image</td>
<td>42</td>
</tr>
<tr>
<td>read</td>
<td>131</td>
<td>teaching</td>
<td>67</td>
<td>life</td>
<td>42</td>
</tr>
<tr>
<td>education</td>
<td>130</td>
<td>student</td>
<td>65</td>
<td>principal</td>
<td>40</td>
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<tr>
<td>Language</td>
<td>125</td>
<td>Learn</td>
<td>59</td>
<td>Collection</td>
<td>40</td>
</tr>
<tr>
<td>China</td>
<td>109</td>
<td>know</td>
<td>54</td>
<td>Text</td>
<td>39</td>
</tr>
<tr>
<td>primary</td>
<td>100</td>
<td>happy</td>
<td>47</td>
<td>classroom</td>
<td>39</td>
</tr>
<tr>
<td>school</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>how</td>
<td>94</td>
<td>health</td>
<td>46</td>
<td>video</td>
<td>39</td>
</tr>
<tr>
<td>we</td>
<td>72</td>
<td>exactly</td>
<td>46</td>
<td>attention</td>
<td>38</td>
</tr>
</tbody>
</table>

From the perspective of keyword extraction, the characteristics of Chinese teachers are mainly reflected in the learning and growth of children and students; classroom teaching, composition teaching, reading teaching and guidance of Chinese teachers; communication between teachers and parents. And communication; teaching reflection and promoting student thinking; country, family, happiness, etc.

Judging from the number and trend of the articles, the initial volume of publications is relatively large, and most of them are mainly reposted. The most articles are published in one day, mostly based on Chinese teaching, famous educational thoughts, and health knowledge. The content is relatively complicated; 2017 From July 1st to June 30th, 2018, an average of 1.76 articles were posted every day, and the original stickers were averaged 0.64 per day. The postings were small and refined, mainly for the recording and thinking of teaching and activities.
4. Research results

4.1 Consciously improve the moral cultivation of teachers

Einstein said: The only source of respect for students to teachers is the teacher's moral and talent [3]. Teacher's moral is the moral and behavioral norms that teachers should have, and requires teachers to have the consciousness of moral consciousness, the demonstration of moral behavior, and the far-reaching moral results [4]. Xi Jinping believes that to be a good teacher, we must have moral sentiments, and we must take the lead in setting an example and lead by example. Informatized society, because of the diversified sources of information, ethical standards and diverse values, affects people's moral norms and value judgments. Therefore, teachers must have high information literacy, and must have the ability to discriminate and a high degree of moral consciousness. Teacher C’s WeChat has records such as “Explanation of Teaching with Life----Jia Zhimin”, “Fudan University Teacher Xiong Hao’s Speech “Teacher’s example forever”, and “Spiritual Learning, Accumulating Neutral Morality, Learning in Practice” to become teacher C’s motto.

4.2 Establish a lifelong learning belief example

Loyalty is the biggest feature of teacher C. They have learned a lot of papers and online articles on primary school Chinese teaching, and actively participated in various training courses. There are nearly 20 QQ groups and WeChat groups, including reading group and language training groups, information technology application ability improvement groups, etc., learn from excellent teachers, learn from peers, and discuss with the community and peers to improve together.

When the author asked teacher C to read and post the time, Teacher C said: “Primary school students are curious, active, short-term attention, lack of self-control ability, etc. Teachers often have difficulty in teaching and management, and work is very hard, except for class, large-scale The correction of student homework and the resolution of students' sudden situation have also occupied a lot of time. Therefore, before going to work in the morning and before the rest of the night, it is the time to read the most. During the class, I will occasionally read some news and read some teaching related materials. The development of technology enables people to learn at any time and any place. The use of mobile phones for fragmented reading and learning has become the norm for primary school teachers.

When asked about the use of winter vacation and summer vacation time, Teacher C said: "The time is the busiest, the master of education, the subject teaching training, the information technology upgrading engineering training, the school-based training, etc., and sometimes various competitions, really busy, very fulfilling." It was also confirmed from the record of his WeChat circle of friends. Seminars, conferences, visits, home visits, etc. become compulsory courses for winter vacations and summer vacations.

4.3 Pay attention to professional development

In the conversation with Teacher C, he said more about his professional growth. When he was very young, his father died. As the eldest son of the family, he felt the great responsibility and determined to become a good and useful person. In WeChat's signature, he wrote: "It's better to work hard than look up." There is a post written like this: "I want to charge my child like a "small donkey" every day." He also proved himself by action. The book is most at home. The excellent journals are a lot of one issue. The WeChat circle records and reprints a lot of information about professional growth, such as: stupid language teaching - Mr.
Yu Yongzheng "Tomato Sun" teaching appreciation, primary school Chinese classic reading teaching method, teacher Peng's essay series, and so on. Repeated reading, try to figure out, and apply in practice. Even if he participate in WeChat's praise activities, it is related to learning: "Collect 50 praises, get a book!". At the end of 2012, he was awarded the title of county language subject as a rural teacher. In 2014, he was employed as a municipal-level central elementary school and won the title of “City Primary School Chinese Teaching Expert”. In the past three years, Teacher C has published 13 articles in newspapers and magazines at the provincial level and above (more than 30 articles have been published since the 20th year of teaching). He has presided over and completed 6 provincial, municipal and county-level projects, and edited 11 books on teaching such as: "Primary School Chinese Reading", "New Humanities Reading", “New Curriculum Project”. He said: "At the same time as I read, I will not forget to read with the students and improve together." In recent years, the students have been instructed to publish more than 200 works.

4.4Good at reflection
Teacher C believes that primary school teachers should also pay attention to teaching research. They should be good at discovering problems in teaching and apply the research results to teaching practice. Teachers should not be “teachers” but should be “educators”. When asked how to improve the teaching and research ability of teachers in interviews, he first said "reflection." After finishing the class, he will reflect on the gains and losses of this class. He said: "I think that preparing lessons and interpreting texts should ask yourself four questions: What are the elements of language education and what can be implemented in the language curriculum standards (2011 edition) What are the requirements of the class? How to implement it in the classroom? What are the language proficiencies that can be used to develop students' language literacy?" "I will write down these reflections and feelings. If I write this article, these are all fresh first-hand valuable information.” Teacher C’s WeChat circle often has such original or reposted posts: “Just changed, simple analysis”, “Reading is not only the pursuit of quantity, but also the quality of reading. I want to read while thinking”, "What does the Chinese flipping classroom turn over?", "Why did you listen to so many classes, still not good public lessons", and so on.

4.5Keen on teaching reform
There is no fixed method. As a young and middle-aged teacher with 20 years of teaching experience, he has accumulated certain teaching and practical experience. He has explained the same content for many years, and many teachers often do not think ahead. However, in the classroom teaching of Teacher C, there is a strong atmosphere of teaching reform. Group collaboration, knowledge exploration, etc. are free to use, visually organize content, suitable for the characteristics of primary school students. In WeChat, there is also a record of “playing a textbook drama friendship game, weaving a child’s beautiful childhood”, and through the student performance, we have a deep understanding and understanding of the textbook knowledge, and cultivate and explore the students’ performance ability and language expression in the performance. Ability, teamwork ability, etc.; “Doing a home visit that students like, using a camera to take a family photo for the students, and listening to the parents at the scene”; before the parent meeting, he will make a targeted summary and production of each student’s situation. In the two-dimensional code, parents can get the full picture of the child by scanning the QR code.
Today, when the construction of smart campus is vigorously promoted and gradually applied, he participated in the training of “embracing technology development to promote educational wisdom”, and expressed his own understanding and applied it in practice. The teaching plan he wrote reflects the student-centered educational thoughts. It not only has the content of post-class inquiry, but also provides students with text reading, bio-words, information packages and other content to stimulate students to use mobile technology. Self-learning. In the after-school tasks, parents are required to record the children's reading and reciting, and post them in the parent circle for teachers to check and exchange with other parents.

5. Summary inference

5.1 Teachers are practitioners of lifelong learning
Teacher are the base of education plan, and there are good teachers to have a good education. The professional level, educational concept, teaching method and comprehensive quality of teachers directly affect the cultivation of innovative, practical and compound talents required by the state and society, and affect the future of the nation. [5] The new curriculum reform in primary and secondary schools puts forward clear requirements for students and teachers. Teachers face many new situations and new problems in the process of teaching implementation, especially the rapid development of new information technologies such as cloud computing, big data and mobile internet. The rise of smart classrooms and maker education has deepened the integration of information technology and curriculum teaching, promoted the reform of education and teaching, and improved students' innovative ability. [6] It has raised higher requirements for teachers and must continue to learn and learn for life. At the national level, it is proposed to "improving the teacher training system and implement full-five training for teachers every five years." Through a series of policies and guarantees, encourage teachers to explore boldly in practice and realize "double-educational" and "educator" teachers. [7] The leap from the individual level, it has become possible to use all high-quality educational resources and information technology to improve their overall quality.

5.2 Fragmentation, mixed is the most important form of teacher learning
The development of smart campus and mobile technology enables people to learn at any time and any place. The use of mobile phones for fragmented reading and learning has become the norm for teachers to learn. Fragmented learning is fragmented and lacks systematicity. The conscious organization of the department and the guidance of teachers through online, offline, on-campus and off-campus learning are important ways to improve teachers' new knowledge, new teaching methods and new technology applications. Fragmented learning and mixed learning are teachers' professions. An important means of growth.

5.3 Teachers have a high degree of professional development conscious
Teacher professional development includes teaching ability, research ability and practical ability. Teachers in the "Internet Plus" environment must have information skills and literacy in addition to their own "one bucket of water". They must master information inquiry, information aggregation, information management, and information transmission under the support of information technology. Students' learning provides high-quality and accurate resources; teachers should learn to develop visual resources such as
courseware and micro-courses; integrate technology, teaching methods, and subject knowledge. All of these are only obtained through study and hands-on practice. Therefore, in order to adapt to the new situation and new requirements, the teachers have a high degree of professional development and self-consciousness, constantly learning, and strive to improve their comprehensive quality and ability.

5.4 Reflection is the best way for teachers to grow up

Teaching reflection is a re-understanding and rethinking of teachers' teaching practice [8]. Different teaching contents, teaching strategies and teaching methods should be different; even if the learning attitudes and learning abilities of the same class students are different, the teachers will continue to progress and grow only by constantly reflecting and summarizing and discovering their own strengths and weaknesses. The current development of information technology provides different platforms for teachers' reflection. The individual learning space and social network of teachers, such as QQ log, blog, WeChat circle of friends, etc., may also be in-depth analysis of their own records through big data technology. Such as teacher behavior, preferences, etc., so as to better "quantify self" and obtain accurate services, become the best way for teachers in the information age to grow.

5.5 Innovative practice, to be a smart teacher is the goal of primary and secondary school teachers

The society needs innovative talents, and the cultivation of innovative talents depends on innovative education and innovative teachers. The construction of the current smart campus provides convenience for teachers' innovative teaching. Holographic projection and mixed reality provide students with a combination of virtual and real learning situations. Based on the teaching methods of high-quality resources, such as flipping classroom, inquiry learning, and collaborative learning, teachers are required to Innovative practice under the guidance of new teaching concepts; at the same time, STEAM (science, technology, engineering, art, mathematics) education, maker education, etc., which are being carried out worldwide, integrate and integrate multidisciplinary, and also pose new challenges Teachers are required to have multi-disciplinary knowledge and ability to develop smart curriculum, implement intelligent teaching, guide and inspire students with innovative ideas, and achieve the goal of “learning, doing, and creating” [9]. The traditional teaching teacher is transformed into a smart teacher is a historical necessity.

6. Conclusion

Fragmented learning is a new way of learning in the era of networking. The rational use of teachers has a major impact on the professional development of individuals. The teacher C in this research case is an ordinary member of nearly 11.72 million primary and middle school teachers in China [10]. Although the curriculum characteristics of the Chinese subject require teachers to have rich knowledge and life experience, they must read and learn from a large number of factors. In addition, but its own diligence, eagerness, good thinking, and innovative spirit of enterprising spirit is the quality that primary and secondary school teachers must possess.

At present, China's education is carrying out a series of major and historical teaching reforms, from the closed-ended exam-oriented education of talents to the open and comprehensive quality education. This has revolutionized the requirements of teachers, and the teachers have to adapt. The pace of the times, the
advantages of new technologies and new methods, the improvement of their comprehensive quality, the promotion of professional development, and the training of qualified innovative talents for the society.

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