

Master Action Plan Template

Name: Amjad Ali

Unit Title: Teaching Science for Pre-service Teachers

Grade Level: Middle School Teachers

Unit Length: 2 Months

Unit Materials & Resources: Science Books, Charts, Scale, Multimedia, Digital camera, calculator.

| Desired Results | |
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| Goals or Power Standards | |
| <ul style="list-style-type: none"> • To give the concept of Current, Electricity • To increase the knowledge of Teachers in science • To understand teaching methods to improve ability to learn science | |
| Enduring Understandings | Essential Questions |
| <i>Teacher will understand the ...</i> <ul style="list-style-type: none"> • Current, Current Electricity, conventional current and Electronic current • How to improve their knowledge in science • That students learn science better if teaching methods are interesting | <ul style="list-style-type: none"> • What is Current, Current Electricity and directions of current? • What techniques teachers need to improve their knowledge? • What methods can teachers use to make learning science more interesting to students? |
| Knowledge | Skills |
| <i>Teachers will know ...</i> <ul style="list-style-type: none"> • To make concepts of Current, Current Electricity, conventional current and Electronic current • The techniques of improving their knowledge in science • To make Science more interesting | <i>Teachers will be able to ...</i> <ul style="list-style-type: none"> • Develop the concept of Current Electricity, conventional current and Electronic current through UBD • Improve knowledge and necessary vocabulary by reading and understanding contents in training session • Develop their own methods to make science interesting |
| Assessment Evidence | |
| Performance Tasks | Other Evidence |
| <ul style="list-style-type: none"> • Understand training content • Demonstrate their understanding of training contents | <ul style="list-style-type: none"> • Teacher will use demonstration and interactive teaching methods to make teaching contents more interesting |

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| <ul style="list-style-type: none"> • Develop assessment technique that include ability to demonstrate understanding of theory • Include audiovisual in lesson plan • Include opportunity for group discussion and debate in lesson plan | <ul style="list-style-type: none"> • Teacher will conduct interactive teaching to encourage students participation • Teacher creates open, friendly teaching and learning environment |
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Learning Plan/ Timeline (Include Benchmark Dates for PELI)

Learning Activities

- Understanding the differences between conventional current and electronic current
- Teachers will have to learn through reading theory and practicing demonstration
- Teaching Concept will be giving through UBD
- Labs
- Demonstration
- Group discussion
- Activities(circuit diagram, make connection, check the directions of current)
- Open discussion in class
- Visit to UET Museum

Time line

Our institution will be open on October 8, 2009. I will discuss with Director University of education Okara campus for arranging a workshop on October 10, 2009. After getting permission I will arrange the workshop in Physics Laboratory. This workshop will be held two days in a month. The first session of this training workshop for pre-services teachers will be from 11- 12 October 2009. Second session will be held in November 2009 on the date specified by the higher authority and same will be in December 2009. In December 2009 a one day trip to University of Engineering and Technology (Science Museum) will be arrange for Teachers.

In September 2009 all the necessary requirements will be fulfilled by the master trainer. Power point slides using animations techniques which show the direction of current and circuit diagram will be prepared by master trainer for the teachers. In the diagram the path of the current will be mentioned. Circuit diagram will also be displayed in the Physics laboratory. Necessary Handouts, Photocopy of the text book article, articles from journals and other document will be prepared by the teacher.