

Queen's Convent School, Rohini

Report on Essentials of a Lesson Plan In Political Science

Date: 06.08.2020

Resource Person: Ms. Santosh Vyas

No. of participants: 38

An online webinar was organized by the COE NOIDA for Essentials of a Lesson Plan in Political Science on 6 August 2020. The Resource Person for the session was Ms. Santosh Vyas. Ms. Shweta Srivastava from our school attended the webinar.

The resource person started with an interactive session as how to define politics and political science and what are the objectives of teaching-learning of the subject. She also discussed the design of a lesson plan with its learning objectives. A lesson plan traditionally includes details of a lesson, the learning outcome, the methodology used, material or resources required in the teaching-learning process. She focused on importance of evaluation of the lesson taught. The Resource Person discussed and explained some topics for making a lesson plan in Political Science.

The webinar aimed at the practical approach in Political Science and importance of critical thinking for the students of Political Science. Overall, it was a wonderful and productive session.

QUEEN'S CONVENT SCHOOL, ROHINI, DELHI

Report on Introduction of Artificial Intelligence in Schools

Date: 02 August 2020

Resource Person: Ms. Hema Dhingra, Author of AI and Computer Science Teacher in Sanskriti School

No. of participants: 437

In a series of online webinars, Goyal Brothers Prakashan conducted a webinar for school teachers on 02 August 2020. The webinar was attended by around 437 teachers. Ms. Monika Kaila from our school attended the workshop.

The resource person Ms. Hema Dhingra explained the importance of Artificial Intelligence in Schools. First of all, she explained the concept of Artificial intelligence? Then she told that CBSE has partnered with Intel to extend AI curriculum to its affiliated schools for classes VI-XII as an elective skill subject with the aim to empower students with AI. She briefed the participants from 1970s to 2000 from the industrial revolution to Mechanical production to electrical power to computers and last but not the least Artificial Intelligence.

She also gave explanation of the three Domains of AI-

- Data
- Computer Vision
- Natural language Processing

She also gave examples of each type of domain such as Facial Recognition system, Voice recognition system, self-driving cars, facial biometrics etc. She also told us about lots of games that we can play with our students to make them understand each concept. She also explained the Application areas of AI and gave us insight into various AI apps like Alexa, Online food ordering apps like Swiggy, how AI separates our spam mails and other mails according to Gmail classifications. She also explained how Netflix and Amazon works on big data. She also explained about Smart navigation Systems, Maps etc. Then, briefly she also explained about the Future of AI and Careers in AI, what are the skills required to build a career in AI? What are the job profiles of AI? At the end, the Resource person explained that although AI has dramatically improved our world in many ways, there are notable concerns regarding the forthcoming impact of AI on employment and the work force. She also explained the bifurcation of marks for each class as per CBSE scheme.

QUEEN'S CONVENT SCHOOL, DELHI

Report on Capacity Building Programme on Class IX AI Curriculum

Date: 08.09.2020-10.09.2020

Resource Person: Mr. Shivam, Intel AI Youth Coach

No. of participants: 200

In a series of online webinars, the Central Board of Secondary Education (CBSE) conducted a webinar for school teachers from 08 September 2020 to 10 September 2020 to make them abreast of the Class IX AI Curriculum. The webinar was attended by around 200 teachers all over India. Ms. Monika Kaila, Computer teacher, attended the workshop from our school.

Day 1- The resource person Mr. Shivam Aggarwal, Intel AI Youth Coach explained

- Method of opening AI Curriculum in CBSE website
- AI Curriculum has been made to create AI readiness in students.
- Unit – 1 Excite
 - The resource person asked the teachers to define the term AI.
 - Three AI games were played wherein the participants were asked to find the AI element used.
 - Explanation of three domains of AI – Data, Computer Vision and Natural Language Processing
- Unit – 2 Excite
 - Concept of Smart Cities and Smart Homes was explained.
 - Activity using menti.com was played.
 - Explanation of creating Interactive Story was done by using the website www.inklewriter.com
- Unit – 3 Purpose
 - AI and Sustainable Development Goals were explained
 - A Board game was played using the website www.gamethegoals.com

Day 2 – The resource person explained the next unit of AI Curriculum on the next day. He explained-

- Unit – 4 AI Possibilities
 - The jobs which are currently available will no longer exist after 5 years from now, so we need to prepare our students for new technologies, new skills which will help them later for getting jobs and their career.

- Domains where AI is mainly being used is Health Care, Security, Education, Transport, Entertainment, Agriculture etc.
- Activities related to this unit were explained.
- Unit – 5 AI Ethics
 - Before encouraging them to use AI, we need to tell them what re ethics, before we teach a machine, it is done for community and that project should not be biased or unethical. When we create a machine we should ensure that it is accessible to everyone. We should also think about its sustainability.
 - A very good example of Hot Air Balloon activity was given in which students will be divided into teams and will speak for and against about a given topic on AI.
- Unit – 6 AI project Cycle
 - Stages of AI project Cycle were explained.
 - Problem Scoping
 - Data Acquisition
 - Data exploration
 - Modelling
 - Evaluation
 - Problem Scoping, Data Acquisition and Data Exploration were explained with the help of videos and examples.
 - 4Ws of Problem Canvas were explained, Who? What? Where? And Why?
 - Doing research work using www.kaggle.com was explained.
 - Creating Mind Map using Loopy was also explained.

Day 3

- Data Exploration and Modelling stages were explained in details
- In Modelling Artificial Intelligence, Machine Learning and Deep Learning concepts were explained with the help of a video.
- Types of models in AI – Rule based and Machine Learning Approach were explained.
- Types of learning i.e Supervised, Unsupervised and Reinforcement Learning were explained with the help of examples and videos.
- AI Neural Network was explained in detail.

The workshop concluded with interactive session between the mentor and the participants. Many queries related to the CBSE Curriculum were answered by the resource person.

Overall it was an informative workshop. It will enable the Computer teachers to teach the new subject in an efficient manner,

QUEEN'S CONVENT SCHOOL, DELHI

Report on Social and Spiritual Quotient Among School Children

Date: 11 August 2020

Resource Person : Ms. Sheela Varghese (Principal , C.K.M.N.S.S Senior Secondary School, Chalakudy , Kerala)

No. of participants: 25

The Central Board of Secondary Education (CBSE), COE Trivandrum, conducted an online workshop on the topic **Social and Spiritual Quotient Among School Children**. The workshop was attended by around 25 teachers. Ms. Rachna Khandelwal, TGT Social Science, from our school attended the workshop.

The speaker emphasized on the importance of spiritual and social quotient as an attribute to be developed among school children in today's era. The Resource Person first explained the meaning of the term Social Quotient and then discussed at length how it makes the child a happy and friendly person which in turn boosts his/her immunity. A detailed discussion ensued on the fact that spiritual quotient is not at all related to religion. It means that good habits and values need to be promoted during regular teaching. The workshop concluded with stress on positivity where we should teach students to count his/her blessings. Various activities were conducted one of which included the art of describing one's blessings. The discussion ended with the following outcomes:

- Social quotient to be incorporated in regular teaching.
- Spirituality is important for a child's wholistic growth.
- Spirituality is not related with religion.
- Happiness can spread through small acts of thankfulness incorporated in regular teaching –learning.

All the topics were explained using examples. The session concluded with an interactive session and clarification between the Resource person and the participants. The workshop was highly enriching and informative.

Queen's Convent School, Rohini, Delhi
Report on Health and Physical Wellbeing in Schools

Date: 25 August 2020

Author: Delhi, SCERT

Attributions: DIKSHA APP-Ms Parvinder Chaudhary, Ms. Tapshri, Ms. Vineeta Garg, Ms. Sapna Yadav

"PHYSICAL FITNESS IS NOT ONLY ONE OF THE MOST IMPORTANT KEYS TO A HEALTHY BODY, IT'S THE BASIS OF DYNAMIC AND CREATIVE INTELLECTUAL ACTIVITY"

BY JOHN F KENNEDY

The course content outlined the need of Physical wellbeing of the students. Physical activity is important to children in the middle childhood age group because a staggering amount of children have become overweight in the last few decades and teachers can play a role in preventing obesity by becoming a positive role model. Obesity rates in children are growing at alarming rates.

Causes of Childhood Obesity -

- ✓ Genetics
- ✓ Sedentary lifestyle
- ✓ Poor diet
- ✓ Lack of exercise
- ✓ Stress and anxiety
- ✓ Force feeding

Consequences of all these factors were also explained. It also explained that parents should restrict screen time for kids and parents should take out time to play with the kids. It also emphasised that primary years are a crucial time when teachers have the greatest power to influence children's social and emotional development positively and, where necessary, to identify developmental deficits and offer early intervention strategies.

The course content highlighted upon the fact that when children are exposed to stress or negative experiences for longer periods like neglect, mental illness in the household or outside of home, trauma or abuse at a young age, the brain's ability to build circuits that allow different regions of the brain to communicate and process information can be impeded. It also recommended for implementing Health and Wellness in Schools.

Overall it was a very useful course.

QUEEN'S CONVENT SCHOOL, DELHI

Report on Common Errors in Science

Date: 27 August 2020

Resource person: Ms. Vandana Banga

No. of Participants: 123

A Webinar on Common errors in science was organized by CBSE (COE Delhi East) on 27 August 2020.

The objective of the workshop was to understand the common errors that child commits and the most common misconceptions that child has in Science, as a subject. At the very onset of the session, the Resource Person showed a picture of a confused girl surrounded by so many pictures depicting concepts in science. This really motivated us and uplifted our interest in the webinar. The Important topics discussed during the session were as follows:

- What are misconceptions?
- How do misconceptions arise?
- Many examples of misconceptions in science.
- How teachers and students can deal with these misconceptions.

The above webinar provided rich experience to the participants and emphasized upon the holistic outlook with which one should impart the knowledge to give into effect the larger purpose that empowers students to master their skills, help them to self-evaluate on the basis of performance specially in the subject Science. The Resource person very well explained reasons behind misconceptions such as lack of scientific mind, lack of concept clarity, preset belief about science, confusion about application of ideas. Many examples of misconception were very well explained such as Convex lens is always converging lens, Heavier objects falls faster, Units of measurement etc. Resource person emphasized on the ways to deal with misconceptions such as critical thinking, connecting through daily life, innovation and inquiry etc. At the end, all sorts of clarifications were entertained by the Resource person. Over all the e- workshop was interesting, introspecting and enthralling.