

REPORT – COMPETENCY BASED EDUCATION WORKSHOP

MODE: VIRTUAL

DATE: 06.02.2021

DURATION: 45 MINUTES (10:00 A.M. - 10: 45 A.M.)

MODERATOR: MS. JASVINDER KAUR (TGT-MATHEMATICS)

ATTENDEES:

MS. NEERU AGARWAL (MENTOR, MATH)

MS. POOJA BATRA (HOD, MATH)

MS. SHAIKALI BHATT (SENIOR MISTRESS – MIDDLE SCHOOL)

MS. GEETU KHANNA (DEPUTY DEAN -JUNIOR AND PRIMARY SCHOOL)

MS. ARTI KAPOOR AND SWATI CHATTERJEE (ACADEMIC COORDINATORS-
PRIMARY SCHOOL)

MS. DEEPTI BHATIA (MATH COORDINATOR – JUNIOR SCHOOL)

MIDDLE SCHOOL MATH DEPARTMENT TEACHERS

Competency based education is a framework for teaching and assessment of learning. It is an outcome-based approach which focuses on the learners’ demonstration and application of desired learning outcomes. It focuses on what students learn and not on the coursework or on the time in completing credits. A workshop on Competency Based Education was conducted on 6th February 2021, for the teachers of Math department – Middle school to discuss the importance of CBE, its need and different ways to incorporate it into the classrooms. The teachers were apprised of different methodologies like AIL, Experiential Learning, Interdisciplinary Learning and Collaborative Learning, to make the teaching-learning process more joyful and meaningful.

A sample activity “READING THE FOOD LABEL “on the topics, “RATIO AND PROPORTION, PERCENTAGES AND UNITARY METHOD “was also conducted in the workshop to present a different way to teach the topics which would not only aid to the mathematical knowledge of students but will also equip them with food literacy skills.

The workshop ended with the Sanskrit shloka “**Guru Brahma, Guru Vishnu, Guru devo Maheshwara Guru sakshat, param Brahma, tasmai shri guravay namah**” which emphasized on the importance of teachers in this educational reform.

LINK OF RECORDING: https://dpsgurgaon-my.sharepoint.com/:v:/g/personal/jasvinderkaur_dpsgurgaon_org/ERNbW_bYKjBEoQy7zwYSx8IBTVD2BT0p7t9xAawl6GHMxw?e=GBYKrn

WHAT IS COMPETENCY BASED EDUCATION?

In layman's term, the education system which makes an individual ready for the real world is competency based education. CBE is an outcome based approach which focuses on the learner's demonstration and application of desired learning outcomes. It focuses on what students learn and not on the coursework or on the time in completing credits.

In CBE:

- Students advance upon demonstrated mastery.
- Competencies include explicit, measurable, transferable learning objectives that empower students.
- Assessment is meaningful and a positive learning experience.
- Students receive timely and differentiated support.
- Students develop and apply a broad set of skills and dispositions.

WHY?

- To make the learning process focused on real-world skills, to develop the competencies of students and to make them workplace ready having expertise in their chosen fields.
- To equip the students with 21st century skills ensuring that they are ready to thrive in a world where change is constant and learning never stops.

INCORPORATING CBE INTO CLASSROOMS

What if the class of polynomials or the introductory class to algebra starts with this video? An engineer designing a roller coaster would use polynomials to model the curves while a civil engineer uses polynomial functions to design roads, buildings and other structures!

Roller coasters are modeled using polynomial functions, specifically this one:

$$y = ax^6 + bx^5 + cx^4 + dx^3 + ex^2 + fx + g$$

If we fill in the values, we get this graph:

That looks like a roller coaster, doesn't it?

INCORPORATING CBE INTO CLASSROOMS

In nutshell, students will be more engaged and thus will learn in a better way if the teaching and learning process are both **JOYFUL AND MEANINGFUL** at the same time. This can be achieved by:

- Art Integrated Learning
- Experiential Learning (Hands on activities)
- Inter disciplinary Learning
- Collaborative Learning (Learning in teams / groups)

These methodologies will in turn boost the **creativity** of the students, make them think **creatively**, render their **communication** skills and inculcate the spirit of **collaboration**; thus making them ready for 21st Century !!

SAMPLE ACTIVITY

TOPICS: RATIO & PROPORTION, PERCENTAGE & DATA HANDLING

ACTIVITY: READING A FOOD LABEL

AIM:

- Determine the percent daily value of each nutrient.
- To apply the 5/20 rule.

LEARNING OBJECTIVES:

- Using the knowledge of percentages and unitary method, equipping the students with a healthy living and food literacy skills.
- To increase the decision making skills of students.
- To develop their mathematical understanding (Measuring ingredients, calculating percentages, ratio and proportion of different ingredients, unitary method and comparison of two sets of data).
- To improve the problem solving skills of students.