

REPORT

TOPIC - COMPETENCY BASED EDUCATION

DATE: 6th February, 2021

TIME: 10 am to 10:45 am

ATTENDEES:

Shalini Arora (Headmistress, Middle School)

Harpreet Joshi (Mentor-Physics)

Sarita Singh (Mentor & HOD -Biology)

Ritu Jain (HOD-Chemistry)

Shikha Bhardwaj (HOD -Physics)

Shaifali Bhatt (Senior Mistress, Middle School)

Purnima Raheja (Senior Mistress, Primary School)

Bhawna Dhawan (Academic Coordinator, Middle School)

Savita Kumari (Deputy HOD Science)

Manisha Gupta (Science Coordinator, Primary School)

Middle School Science Teachers-Kirtika Patwal, Jyotsna S, Meenal Kathuria, Pallavi Agarwal, Namrata Negi, Vanita Chawla, Vanita Dhawan, Ruchi Baduni, shilpy, Suruchi Oberoi.

Purpose – To introduce Competency Based Education to middle school science teachers.

A session was conducted on Competency Based Education by Minakshi Puri.

- Salient features of Competency Based Education (CBE) were discussed and a few activities were conducted to demonstrate the same.
- **Competency-based education** is defined as an “approach [that] allows students to excel based on their ability to master a skill or **competency** at their own pace regardless of environment. This method is tailored to meet **different learning abilities** and can lead to **more efficient student outcomes.**”
- Circular No. Acad- 34/2020, dated 14th May, 2020 from Central Board of Secondary Education was discussed with reference to CBE.
- Aims of National Education Policy, 2020 were also taken up in relation to CBE.
- The National Education Policy lays particular emphasis on the **development of the creative potential of each individual**. It is based on the principle that education

must develop not only **cognitive skills - both ‘foundational skills’ and ‘higher-order’ cognitive skills** such as critical thinking, problem solving – but **also social and emotional skills** - also referred to as **‘soft skills’** - including cultural awareness and empathy, perseverance and grit, teamwork, leadership, communication, among others.

- **The principles on which this Policy** is based are:
 - flexibility, **multi-disciplinary** and a holistic education (across the sciences, social sciences, arts, humanities, and sports) for a multidisciplinary world
 - emphasis on **conceptual understanding** (rather than rote learning and learning-for-exams), on **creativity and critical thinking** (to encourage logical decision-making and innovation) and on life skills (e.g., cooperation, teamwork, communication, resilience);
 - **regular formative assessment** for learning rather than the summative assessment and
 - a **respect for diversity and respect for the local context** in all curriculum and pedagogy.
- Keeping these salient features in mind, the workshop was conducted to familiarize the teachers with various pedagogical techniques that can be used to make teaching and learning more holistic and enjoyable.
- The key points of CBE were compared to the traditional education system **underlining the changing role of a “teacher” from being a teacher to a facilitator.**
- Two activities demonstrating the features of NEP and CBE were shown to the teachers.
 - To explain how thick fur and wool protect animals – A simple activity was performed with two containers, ice cubes and towel. The concept was linked to wearing woollen /clothes in winter. The topic was integrated with Physics and Mathematics.
 - To explain the concept of camouflage. – An activity was performed using newspaper and coloured paper and it was demonstrated how animals that are camouflaged do not draw attention to themselves and can escape notice by predators and prey.
The topic was integrated to Geography with discussion on habitats and climates.
- The session was very well received and concluded with a small discussion on advantages of CBE.
- Most of the guidelines of CBE are already part of our teaching and pedagogy processes whereby we have been integrating various subjects for a comprehensive and wholesome teaching learning experience.

- The complete session can be viewed at https://dpsgurgaon-my.sharepoint.com/:v/g/person/minakshipuri_dpsgurgaon_org/EQPPA9cMWn_xLjmZYheK7j24BjDK1TbHVJpESYs7Pf2qIJA?e=YDc8Ap

CBE - SCIENCE

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Competencies are combination of attitudes, skills and knowledge that students develop and apply for successful learning, living and working.

Competencies may be critical thinking, communication, creativity and innovation, quantitative literacy, problem solving and managing information.

Competency based education aims at:

- Growth centered mindset
- Interdisciplinary approach
- Learning based advancement
- Student centered teaching with students as active learners
- Creating effective learning environment
- Formative assessment

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Purnima JYOTSNA_SRIVASTAVA SAVITA_KUMARI Pallavi

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CBE - SCIENCE

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CBE - SCIENCE

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CLASS - VI
SUBJECT - BIOLOGY

The Living Organisms – Characteristics and Habitats

ADAPTATIONS

The presence of specific features or certain habits, which enable a plant or an animal to live in its surroundings, is called an adaptation.

Mountain animals have thick fur and wool to protect themselves from extreme cold.



Yak Sheep Mountain goat

Participants

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- P Pallavi
- P Purnima
- R RITU_JAIN
- RB ruchi baduni
- SS SARITA SINGH
- S SAVITA_KUMARI
- S SHIKHA_BHARDWAJ
- S Shilpy
- S SURUCHI_OBEROI
- VD VANITA DHAWAN

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Pallavi MinakshiPuri JYOTSNA_SRIV...

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CBE - SCIENCE

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Learning Outcome:

- Learners will understand the concept of 'camouflage' and its significance for animals.
- This will enable learners to list down adaptations in animals and gain knowledge on how it helps a particular animal.
- Students will develop competencies like critical thinking, creative thinking, problem solving and managing information.

*"I hear, I forget; I see I remember;
I experience, I understand."*

Dr Maria Montessori

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Pallavi JYOTSNA_SRIVASTAVA VANITA_CHAWLA Kirtika Patwal MinakshiPuri

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CBE - SCIENCE

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Participants

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- P Pallavi
- P Purnima
- R RITU_JAIN
- RB ruchi baduni
- SS SARITA SINGH
- S SAVITA_KUMARI
- S SHIKHA_BHARDWAJ
- S Shilpy
- S SURUCHI_OBEROI
- VD VANITA DHAWAN

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CBE - SCIENCE

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Activity :

To explain how thick fur and wool protect animals.


MATERIAL REQUIRED: Two containers , two identical ice cubes and small towel.

PROCEDURE:

- Take two containers and keep identical ice cubes in both.
- In one container cover/insulate the ice cube with a small towel, while keep the other ice cube without any cover.
- Keep both the containers away from sunlight or any other direct source of heat. Check on the ice cubes every 10 minutes and record the quantity of melted ice.



OBSERVATION: Insulated ice cube takes much more time to melt as compared to the one without any insulation.



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SAVITA_KUMARI Pallavi JYOTSNA_SRIVASTAVA VANITA_CHAWLA MinakshiPuri

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