



## CONCEPTUALIZATION OF CURRICULUM MAPPING

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### Abstract:

Education is the essential for human progress. Their are different platforms or different opportunity. To every one to increase the level of incomes as well as life style. The development of nation is depends on the development of Nation.

Curriculum and Syllabus these two different terms. Curriculum are includes all theory papers, practical's, curricular activities, extra curricular activities. The curriculum of Primary education level, Secondary education level, higher education level is different. Curriculum includes Syllabus and different task to be completed by different subjects. Generally the objectives of the program or course are Written or included in the curriculum. The outcome of Curriculum is broad and out comes of Syllabus are specific which are intermingled in each other.

Curriculum mapping is a process or tool which can improve student performance. Curriculum mapping plays very important role in science education Curriculum mapping gives well Structured and Comprehensive learning experience. Curriculum mapping promotes consistency and effective teaching. Curriculum mapping plays important role to align. Learning Objectives content and assessment.

The present paper discusses the definition of curriculum mapping, Importance of the curriculum mapping, Approaches of curriculum mapping Types of curriculum mapping.

**Keywords:** Curriculum, Syllabus, Curriculum Mapping.

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### Objectives of the paper:

To explain the importance of the curriculum mapping

To explain the Approaches and types of curriculum mapping

### Introduction:

Education is a process through which objectives of nation are achieved through the curriculum. Development of Curriculum is complex process it is different at different levels of education.

Curriculum development is a complex process of Planning, designing and producing a set of materials which are used in classrooms at all levels of education. Curriculum mapping plays important role in the development of curriculum in which previous curriculum Considered for development of next year or new curriculum.

With the help of curriculum mapping we can find out the gaps, overlaps, redundancies in new learning.

Dr. Heidi, Hayes Jacob work on the Curriculum. Model [1997, 2004, 2006, 2008, 2010]

Interdisciplinary Coherence of the curriculum mapping focus on the skills, work habit, Student need, discipline, reading skill, Writing skill, technological skill, critically thinking skills.

Curriculum mapping holds significant importance. It also helps to educator to organize the science curriculum effectively

Curriculum mapping align learning Objectives, content and assessments and also promotes the consistency and effective teaching. It also helps to organize science curriculum effectively Topics, skills, censors all are arranged logically and progressively manner. It also helps to For Interdisciplinary Connections It helps to give the balanced distribution of content.

Curriculum mapping helps to eliminate redundancies, and gives balanced. distribution of content for enhancing the quality of science education. It helps to align learning objectives, teaching Methods Assessments and resources. It also gives meaningful learning Experience for Students.

#### **Definition of Curriculum Mapping:**

1. According to Jacob (2004) Curriculum mapping answers the following question's " who is doing what ? How does our work align with our goals?
2. According to Hardon (2001) What is taught how it is taught. When it is taught, and whether student get proper knowledge.
3. Curriculum mapping is a process for collecting and recording Curriculum related data that identifies Core skills, and content taught processes employed and assessment used for each subject area or grade level-  
[www.educationworld.com>virtualwkshp](http://www.educationworld.com>virtualwkshp).

#### **Importance of Curriculum Mapping:**

"Curriculum mapping is a systematic process employed in education to design, document, and assess the alignment and consistency of a curriculum across various levels, such as individual courses, grade levels, or entire educational programs. It serves several crucial purposes in education:

##### **1) Alignment with Learning Objectives:**

Curriculum mapping ensures that the content, skills, and assessments within a curriculum are in line with the intended learning objectives or standards. This alignment is vital for achieving educational goals and ensuring that students acquire the expected knowledge and skills.

##### **2) Consistency:**

It promotes uniformity in teaching and assessment. When educators create a curriculum map, it becomes easier to maintain a consistent approach to teaching and evaluation across multiple courses or grade levels.

##### **3) Identifying Gaps and Redundancies:**

Curriculum mapping assists educators in recognizing gaps in the curriculum where specific topics or skills might be underemphasized or overlooked. It also highlights redundancies where similar content is taught repeatedly, allowing for more efficient use of instructional time.

**4) Sequencing and Progression:**

Mapping enables educators to establish a logical sequence and progression of content and skills. This ensures that students build upon their prior knowledge and are prepared for more advanced concepts as they progress through the curriculum.

**5) Data-Driven Decision-Making:**

Curriculum mapping offers data that can inform decision-making processes in education. Educators and administrators can utilize this information to make informed choices regarding curriculum revisions, resource allocation, professional development, and more.

**6) Accountability:**

It contributes to accountability and assessment efforts. By documenting what is taught and when it is taught, educational institutions can demonstrate compliance with educational standards and regulations.

**7) Professional Collaboration:**

Curriculum mapping fosters collaboration among educators. It enables teachers to exchange insights, best practices, and resources, cultivating a culture of continuous improvement and professional development.

**8) Adaptation to Changing Needs:**

In an evolving educational landscape, curriculum mapping helps institutions adapt their curricula to meet the changing needs of students and society. It allows for ongoing reflection and adjustment.

**9) Communication:**

It facilitates communication among educators, students, parents, and other stakeholders. Clear mapping documentation can help all parties understand the curriculum content and what can be expected from an educational program.

**10) Quality Assurance:**

Curriculum mapping serves as a tool for quality assurance in education. It helps ensure that educational programs maintain high standards and that students receive a comprehensive and rigorous education.

In summary, curriculum mapping is significant because it enhances teaching and learning effectiveness, elevates educational quality, and supports the continuous enhancement of educational programs. It is a valuable process for educators and institutions to guarantee that their curriculum aligns with the needs of both students and society."

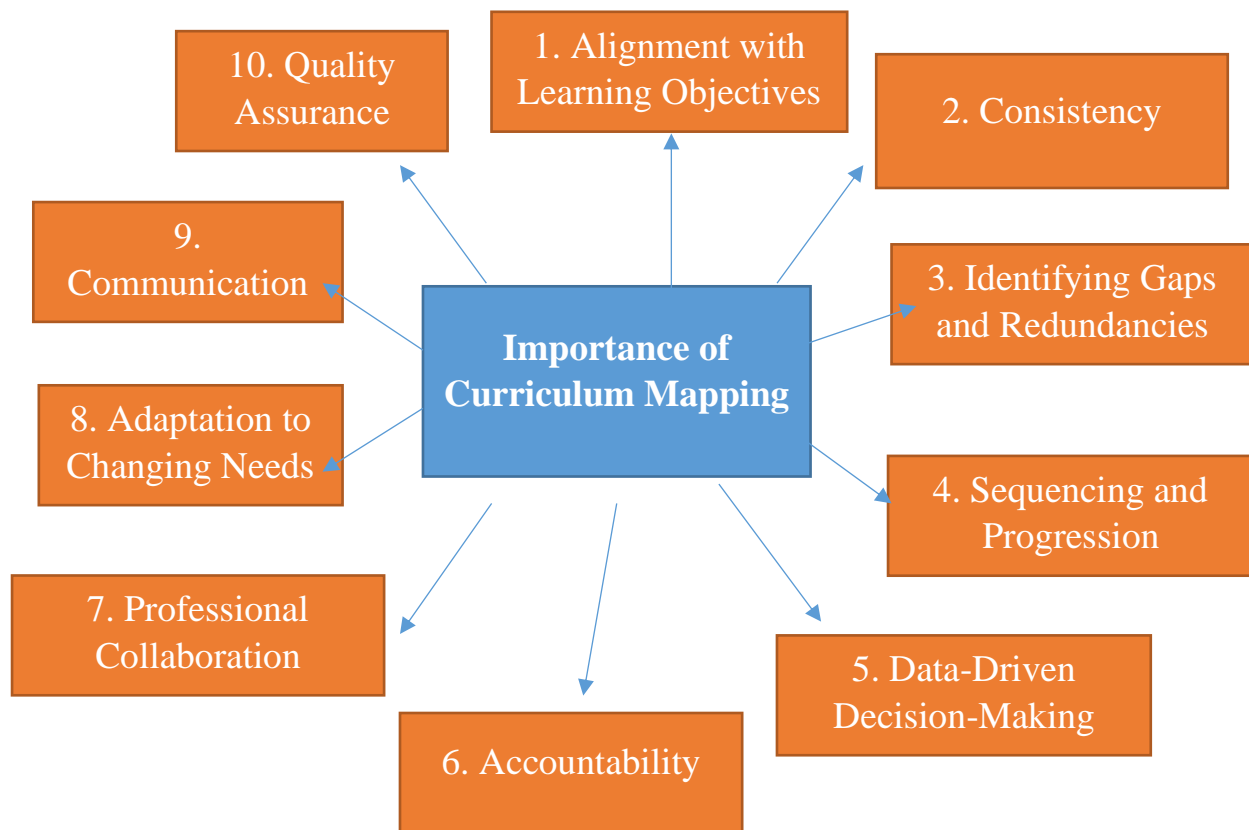


Fig. 1.1 Importance of curriculum mapping

### Approaches of Curriculum Mapping

"Curriculum mapping is a procedure utilized in education to generate visual representations or documents that delineate the content, skills, assessments, and other essential components of a curriculum. There are numerous methodologies for curriculum mapping, each characterized by its unique approach and intention. Here are some prevalent strategies:

#### 1) Horizontal Curriculum Mapping:

##### i. Grade-Level Mapping:

This method focuses on the mapping of curriculum content and skills within a particular grade level, ensuring that all instructors at that grade level maintain consistency in their approach, providing students with a standardized educational experience.

##### ii. Course-Level Mapping:

Commonly utilized in higher education and secondary schools, this strategy is employed to map curriculum content within individual courses. It provides a breakdown of the topics, assignments, assessments, and learning objectives for each course.

**2) Vertical Curriculum Mapping:**

**Vertical Alignment:**

This approach encompasses the mapping of curriculum content and skills across multiple grade levels or courses, ensuring a logical progression of learning. It also helps in identifying gaps, overlaps, and opportunities for reinforcing or extending concepts as students progress through their educational journey.

**3) Cross-Curricular Mapping:**

In this strategy, educators map curriculum content and skills across different subject areas to encourage interdisciplinary learning and identify possibilities for content integration.

**4) Backward Design Mapping:**

**Backward Design:**

This methodology initiates with the identification of desired learning outcomes and assessments, working in reverse to determine the necessary content and instructional approaches needed to achieve those outcomes. It closely aligns with the principles of Understanding by Design (UbD).

**5) Longitudinal Curriculum Mapping:**

**Program-Level Mapping:**

At the program or departmental level in higher education, this approach involves mapping the entire educational program, encompassing core courses, electives, and co-curricular activities. It ensures that students meet program-specific learning outcomes.

**6) K-12 Vertical Progression:**

In K-12 education, this approach concentrates on monitoring a student's progress and learning experiences from one grade level to the next, emphasizing the continuity of learning over time.

**7) Digital Curriculum Mapping:**

**Technology-Enhanced Mapping:**

With the advent of digital tools and software, educators can create and manage curriculum maps electronically. Digital curriculum mapping facilitates effortless updates, data analysis, and the sharing of maps among educators and stakeholders.

**8) Collaborative Curriculum Mapping:**

**Team Collaboration:**

This method entails collaborative efforts among teachers, department heads, and curriculum coordinators to create and enhance curriculum maps. Collaboration ensures the inclusion of diverse perspectives in the mapping process.

**9) Assessment-Driven Mapping:**

**Assessment Integration:**

Curriculum maps in this approach place a strong emphasis on aligning assessments, including formative and summative assessments, with learning objectives to ensure effective measurement of student progress.

**10) Standards-Based Mapping:**

**Standards Alignment:**

Curriculum maps are aligned with specific educational standards, such as state standards or Common Core standards, ensuring that curriculum adheres to established benchmarks.

**11) Cyclical Review Mapping:**

**Periodic Review:**

Curriculum maps undergo regular reviews and updates to reflect changes in educational objectives, content, or assessments. This approach ensures the ongoing currency and effectiveness of the curriculum.

Each of these approaches serves distinct purposes and can be customized to meet the specific requirements and objectives of an educational institution or program. Curriculum mapping is a versatile tool that can be adapted to support various aspects of curriculum development, assessment, and enhancement."

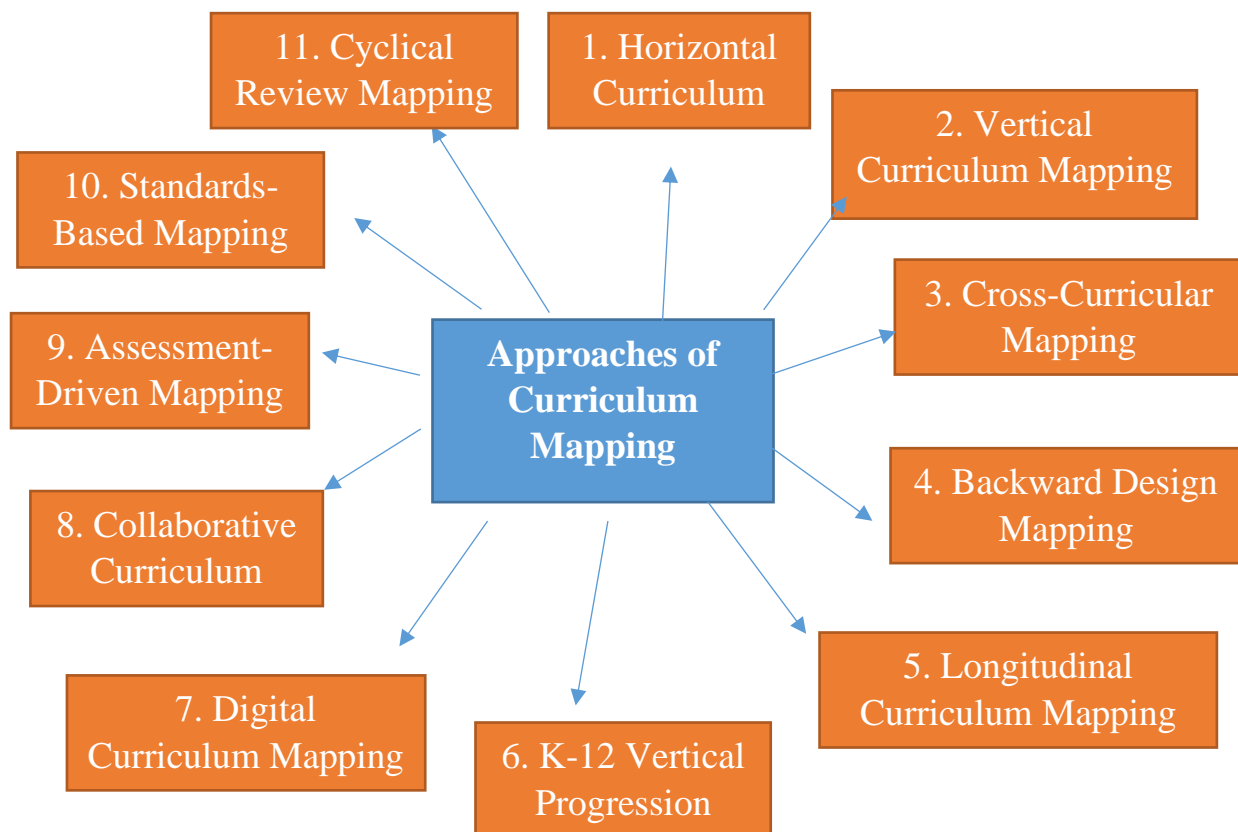


Fig. 1.2 Approaches of Curriculum Mapping

**Types of Curriculum mapping :**

"Curriculum maps encompass a variety of types, each designed to fulfill distinct purposes and address specific facts of education. Here are some prevalent varieties of curriculum maps.

**1) Content Curriculum Map:**

This particular map centers on the curriculum's content that is to be imparted. It delineates the topics, concepts, and subject matter that students are expected to acquire. Content maps are frequently employed to ensure comprehensive coverage of all essential content.

**2) Skills Curriculum Map:**

Skills maps concentrate on the cultivation of particular skills or competencies within the curriculum. These skills may encompass critical thinking, problem-solving, effective communication, and subject-specific competencies. Skills maps enable educators to monitor the progression of skill development over time.

**3) Unit Curriculum Map:**

Unit maps deconstruct the curriculum into individual units or modules. Each unit is comprehensively detailed with its objectives, content, activities, assessments, and the requisite resources. Unit maps greatly aid in meticulous instructional planning.

**4) Yearly Curriculum Map:**

Yearly maps offer a sweeping overview of the curriculum for an entire academic year. They highlight the principal subjects or themes to be covered during each semester or term. Yearly maps are instrumental in long-term planning and pacing.

**5) Scope and Sequence Curriculum Map:**

A scope and sequence map outlines both the scope (i.e., what will be taught) and the sequence (i.e., when it will be taught) of the curriculum. It provides a chronological arrangement of topics and concepts scheduled for coverage throughout the academic year or course.

**6) Vertical Curriculum Map:**

Vertical maps elucidate the progression of learning from one grade level to another or from one course to another. They facilitate the assurance of alignment and continuity in education by elucidating how concepts progressively build upon one another.

**7) Horizontal Curriculum Map:**

Horizontal maps revolve around a specific grade level or course and meticulously specify the content to be delivered within that grade level or course. They are particularly valuable for ensuring consistency and alignment among educators instructing the same grade or course.

**8) Assessment Curriculum Map:**

Assessment maps establish the linkage between curriculum content and specific assessments, including both formative and summative evaluations. They guarantee that assessments are harmonized with the predetermined learning objectives and content.

**9) Standards-Based Curriculum Map:**

Standards-based maps align curriculum content with educational standards, whether they are state-specific or national benchmarks. Such maps are essential in ensuring that the curriculum conforms to the established standards.



**10) Digital Curriculum Map:**

Digital curriculum maps are crafted and maintained electronically through the utilization of specialized software or tools. They offer the advantages of easy updates, data analysis, and the convenient sharing of curriculum information among educators and stakeholders.

**11) Interdisciplinary Curriculum Map:**

Interdisciplinary maps serve as a bridge between multiple subject areas, facilitating the promotion of interdisciplinary learning. They meticulously delineate opportunities for the integration of content from diverse disciplines, thereby offering a holistic educational experience.

**12) Project-Based Curriculum Map:**

Project-based curriculum maps are primarily concerned with project-based learning. They delineate the projects or inquiry-based activities that students will engage in throughout the curriculum. These maps comprehensively present the skills, content, and assessments associated with each project.

**13) Cultural Competency Curriculum Map:**

Cultural competency maps underscore the integration of cultural awareness and diversity into the curriculum. They assist educators in incorporating multicultural perspectives and fostering inclusivity.

**14) Professional Development Curriculum Map:**

Professional development maps offer a comprehensive overview of the training and development opportunities accessible to educators. They serve as a valuable resource for educators in planning their professional growth and skills enhancement.

Each category of curriculum map serves a unique purpose in the realms of educational planning, implementation, and assessment. Educators and institutions may adopt one or more of these map types according to their specific requirements and objectives.

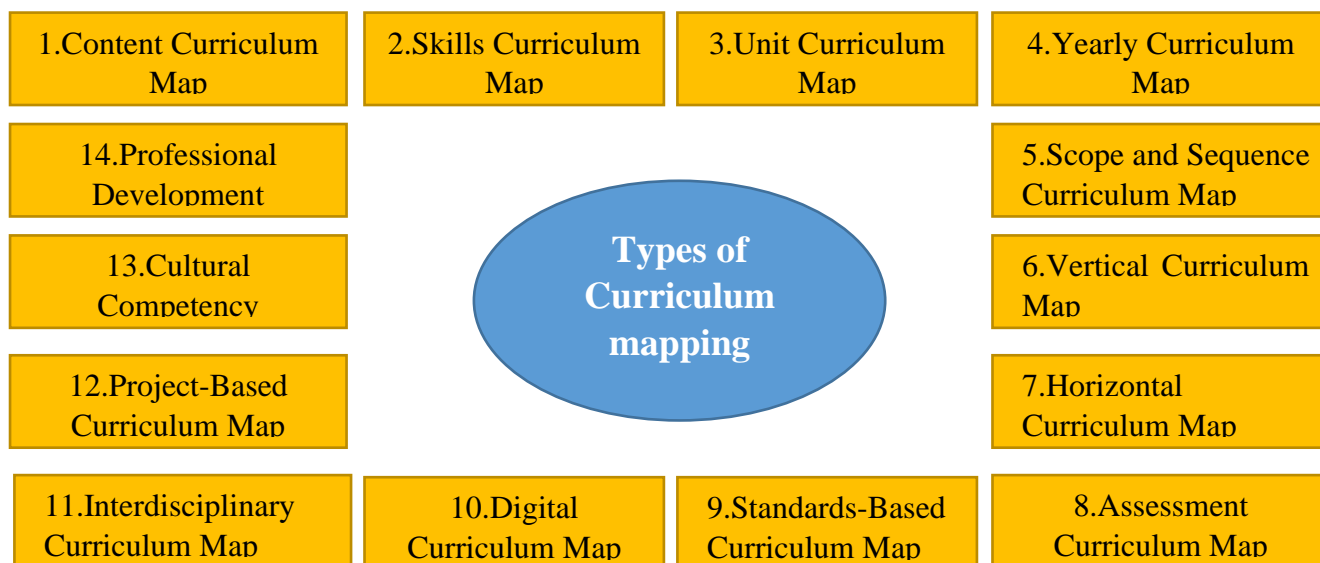


Fig. 1.3 Types of Curriculum mapping





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**Conclusions:**

Curriculum mapping plays very important role in science education. Such as Alignment, coherence, Identifying gaps and Redundancies, Interdisciplinary connections, Consistency Data informed Decision making, Student centered Approach, Professional Collaboration, Assessment Alignment, Continuous Improvement in this way Curriculum mapping is important in Science education.

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