

## NURTURING THE SEEDS OF FUTURE RESEARCH: CULTIVATING YOUNG MINDS IN SCHOOLS

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### ABSTRACT

This paper looks at important role of schools in nurturing the future generation of Researchers. By integrating research-oriented learning into school curriculum, students will be able to develop essential skills such as curiosity, critical thinking and problem solving. This education system will help the students to prepare themselves for higher education and future careers in research.

As the whole world evolves more research is required to advance knowledge and innovation in all fields. This implies that school's students must be prepared for today's knowledge – driven world. I discuss in this paper, value and benefits of research among school students and challenges they face. In school education time there should qualified teachers to teach students how to research, how to analysis facts and events, how to prepare notes for themselves, how should criticize the concepts and ideas etc., this will help the students to acquire skills to use beyond their academic environment. The government should have special interest and initiatives in research programs and activities and cause students to higher qualifications. True and factual research will have a long-term impact on valuable learning outcomes, and it will help students to prepare for professional, social and national service in the future.

**Key Words** - Research Skills, Critical Thinking, Creative Writing, Extra Curriculum Activities, New Concepts.

### REVIEW OF LITERATURE

The paper, Nurturing the Seeds of Future Research: Cultivating Young Minds in Schools, aims wide area of topics including critical thinking skills, analytical mind, how to understand the reality, concepts, factual events and to make a real conclusion and comprehensive overview. This paper gives ideas to develop research skills and confidence in their abilities.

### OBJECTIVES

- Encourage interdisciplinary learning to connect knowledge across different subject

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- Foster analytical and evaluative skills to enable students to approach problems logically and creatively
- Encourage questioning and curiosity to develop independent thinking
- Familiarize students' various methodology and tools

### FINDINGS

#### 1) Need of Research in Schools

Research learning is fundamental in the academic area, and it has an important role in school students. Since science and technology are developing at an unprecedented rate with new discoveries and achievements coming out so that there should be qualified research skill in every student. To achieve this quality of research class must begin from school curriculum onwards. When we discuss about research naturally, we relate with PhD and PG studies and their scientific paper and studies, they complete it in order to gain their certificate but when we train students from school curriculum onwards, they will be able to keep it for their life long. Learning in research will develop personal and professional growth, empowering them to expand their knowledge. By acquiring new research skills in school, students will be able to undertake more different and difficult papers in future. This will help students to have more confidence in their carrier.

#### 2) Benefits of Research among school students

##### a) Gain more knowledge of subjects

Research gives wide understanding about the knowledge of their subjects. This will help the students learn from different perspectives.

##### b) Preparing themselves for future carriers

Through participating in research students will gain their skills including problem- solving, critical thinking, communication, project management and teamwork.

##### c) understanding about Environment and society

Research will help students to understand their environment and society, it will lead to new discoveries, solutions to societal problems and innovative ideas that drive societal progress.

##### d) Communication and presentation skill

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When students present their work in front of the desk it will help to improve their presentation skills and communication skills. This is a great opportunity for students to refine their presentation skills through oral presentation.

#### e) Personal growth and confidence

Research will help students to understand their abilities which will help them for their future, and it will give more confidence in their abilities.

### 3) Challenges of Research Studies in Schools

#### a) Syllabus

There is no special syllabus for research studies in schools. Even though there is no special syllabus every subject can include space for research activities.

#### b) Lecturing

Most teachers in schools are following lecture methods, there is no active place for students to interact or contribute to subject. Teachers are teaching subject students just listening to them and writing notes, no more discussion or serious interaction take place.

#### c) Facilities

There are good libraries in the schools but not sufficient for all students to make use of it, not only the library but also labs too.

#### d) politics

Now governments make schools exam and results so easy if you look at the SSLC passing percentage in Kerala it is above 98% so it gives comfort for students learn only what is in the textbooks.

#### e) Students Approach

Students are not interested in the extra activities like reading, writing and experiments, they are in the fantasy world.

#### d) Migration

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One of the major issues that India is facing. Look at the last 8 years 46.44 lakhs students were migrated to abroad this real number that center government has delivered. After school's studies most students are planning to do foreign language courses and want to go abroad. A student planning for this will not take any studies seriously in schools.

#### 4) Action to be taken

##### a) Good Facilities should be provided

All students must get good opinions about our curriculums, education system and facilities likewise in abroad so we need good libraries, lab etc. different way of teaching methods rather than Lecturing.

##### b) Research Studies

There should be space for Research studies in school syllabus. It will help students to get more knowledge about critical thinking abilities, how to prepare notes, seminars, projects.

##### c) Presentation

Each subject must have some paper station for all students, which will help students to have confidence in their abilities.

##### d) Library Hours

Each class must spend at least 4 to 5 hours in the library a week.

##### e) Group Discussion

There should be some serious group discussion that must take place in every class with the presence of teachers.

##### f) Mark System

For all extra activities just like presentation, group discussion, experiment must give mark and certificate.

#### 5) Philosophy and Schools

Philosophy subject must be introduced in schools. Philosophy is not just fancy thinkings, but it will help both teacher and students to do their best in classrooms.

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The critical mind is not just criticizing everything around us, but it is asking some valuable questions and finding out answers to the questions. So, it begins with oneself, one student asks himself why I am going to school? What should achieve in the future? What should be my life purpose? This question and answers will give hope in their life.

The idea of teaching philosophies has been shaped over time by some very thoughtful people. John Locke thought education could shape a person, and Jean-Jacques Rousseau said we should focus on how kids naturally grow and learn. Their thinking is a big part of today's teaching philosophies.

There are some philosophical ideas that can introduce in schools

- a) Progressivism: students will understand that education will help them in all their parts of life, not only their brain alone.
- b) Perennialism: students will get more ideas rather than just factual knowledge so they will ask more meaningful questions.
- c) Reconstructionism: students begin to have critical thinking about their purpose life and improve it.

The aim of teaching philosophies is to ensure the complete and balanced development of students, make them not only with intellect but wisdom to proper. All students possess unique learning styles, preferences, abilities, it is essential for teachers to consider these factors. When selecting and implanting a teaching philosophy.

### CONCLUSION

Shaping the future of research is not in the hands of college students but it is in the hands of young ones in schools. We must make good educational movements in the school system and curriculum; we will witness the great changes and innovative methodologies in the research area. When this young mind is trained well, surely, they will bring new ideas and concepts.

Flexibility and adaptability are necessary to bring changes in research, if we need a change in the particular area we have to depend on students because they can easily adapt anything and make flexible changes.

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