

Diffit AI for Differentiated and Inclusive Learning

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Problem:

In Indian classrooms, students have varied reading abilities, language proficiency, and learning pace. Teachers often spend one to two hours preparing multiple versions of the same lesson to suit every learner. This limits classroom time for actual interaction and differentiation.

Proposed Solution

Diffit AI is a free, browser-based AI platform that empowers teachers to instantly generate learning materials—such as reading passages, vocabulary lists, and comprehension questions—at multiple reading levels. It supports inclusive education, saving teachers’ time and helping every learner succeed.

Teachers simply enter a *topic, text, or link*—and Diffit automatically produces differentiated resources that can be customized, translated, and exported into formats like Google Docs, Slides, Forms, or PDFs.

Tool	Purpose
Diffit AI	To generate differentiate learning content
Google Docs /Forms /Slides	To edit and share resources
Canva	To design bilingual worksheets
Google Drive	To store Diffit outputs

Learning Outcomes

After completing this activity, teachers will be able to:

- Understand how AI can simplify differentiated and inclusive teaching.
- Create customized reading passages for multiple grade levels.
- Integrate Diffit AI outputs into group work, assessments, and discussions.
- Save time while ensuring learning accessibility for all students.

Introduction

Differentiated instruction helps meet the needs of diverse learners—slow readers, advanced students, and English Language Learners.

Diffit AI serves as a bridge between teacher creativity and technology, turning one piece of content into multiple, level-appropriate learning experiences.

By using Diffit AI, teachers can design **personalized lessons** in minutes, creating an equitable and engaging learning environment aligned with the **NEP 2020** vision of inclusive, technology-driven education.

Classroom Scenario

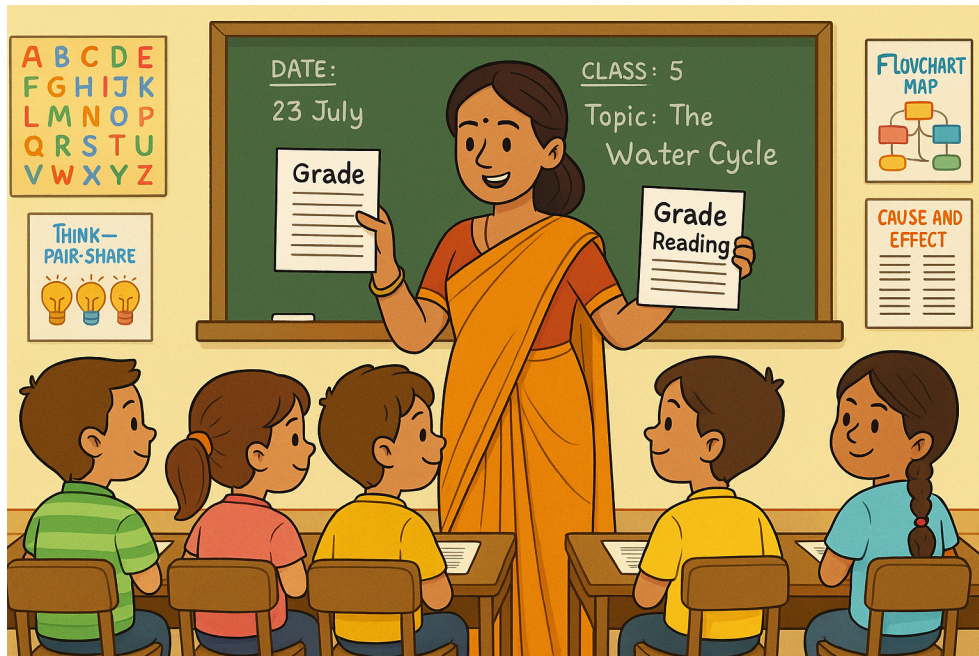
Ms. Riya, an English teacher in a government school, faces a mixed-ability class of 40 students.

When she teaches “Water Cycle,” some students grasp it quickly, while others struggle with new terms.

She logs in to **Diffit AI**, types “Water Cycle,” and selects reading levels for Grade 3 and Grade 5. Diffit instantly generates two passages—with vocabulary and comprehension questions suited to each level.

During class, Ms. Riya divides students into small groups. Weaker readers use the simpler passage, while stronger students work on the advanced one. The result?

All students participate confidently, and she saves more than an hour of preparation time.



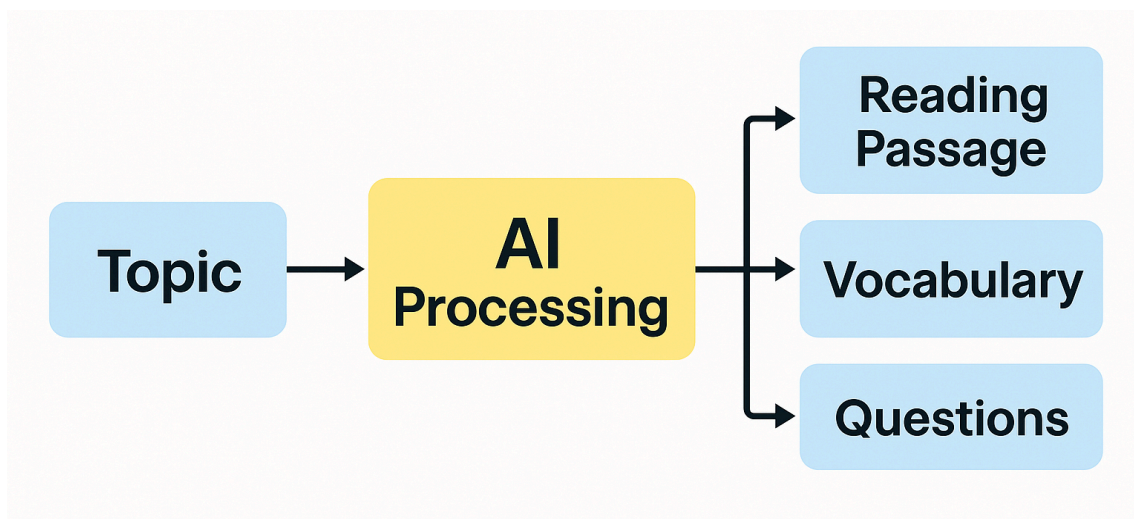
Understanding the Concept

Diffit AI uses **Natural Language Processing (NLP)** to analyze and simplify text.

It automatically adjusts:

- Sentence length and complexity
- Vocabulary level
- Type and depth of questions

Teachers can edit, translate, or enhance the generated text to make it culturally and contextually appropriate.



Step-by-Step Activity

1. **Open Diffit AI** → <https://www.diffit.me> → *Sign in with Google Account.*
2. **Enter Topic / Paste Text / Insert Link** – for example, “Galaxy” or “Evaporation.”
3. **Select Reading Level** – choose Grade 1, 3, 5 etc.
4. **Generate Resources** – Diffit creates passages, vocabulary, MCQs, and open-ended questions.
5. **Customize & Translate** – edit text, shorten or extend length, switch to Hindi or other languages.
6. **Export Materials** – save as printable PDF or Google Doc/Form/Slide.
7. **Use in Class** – conduct group work, vocabulary games, or *Think-Pair-Share* activities using the generated materials.

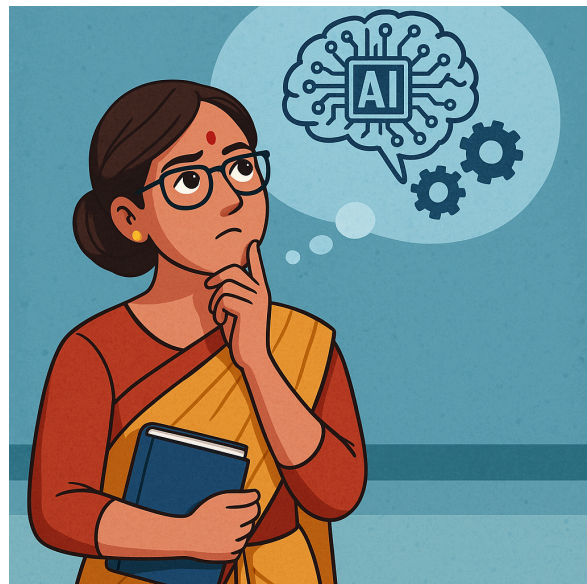
Curriculum Integration

Diffit AI can be used across multiple subjects:

- **English:** Simplify stories or reading comprehension.
- **Science:** Create leveled texts for “Plants,” “Water Cycle,” or “Solar System.”
- **Mathematics:** Use short problem statements or logic passages.
- **Social Studies:** Translate lessons on “Festivals” or “Community Helpers” into local languages.

Reflection Questions

- How did AI help you modify the text for different learners?
- In what ways did the students’ engagement change after using Diffit AI materials?
- How can AI tools support inclusive education beyond language and reading?



Impact and Conclusion

By integrating Diffit AI, teachers can reduce planning time, ensure equity, and make every learner feel included.

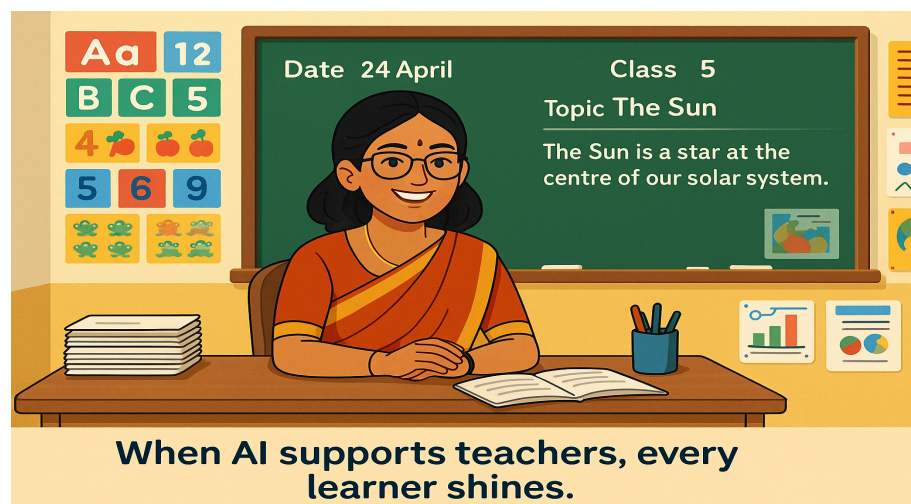
It transforms classrooms into joyful, technology-enabled spaces where **each child learns at their own pace.**

Tools & Resources

Tool / Platform	Link	Purpose
Diffit AI	https://www.diffit.me	Generate differentiated learning materials
Google Docs / Forms / Slides	https://docs.google.com	Edit and share Diffit outputs
Canva	https://www.canva.com	Design bilingual posters or worksheets
Google Drive	https://drive.google.com	Store and organize Diffit AI resources

By integrating **Diffit AI**, teachers empower students of all abilities to learn meaningfully.

This project bridges the gap between technology and inclusive education—proving that when AI assists teachers, **every learner finds their voice and pace in the classroom.**



video - https://youtu.be/_s-VTX1Lr8U