

A review of the benefits of the flipped classroom in TOEIC study

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ABSTRACT

The flipped classroom model has been more and more concerned in language teaching settings due to its great potential. This library research investigates the benefits of using the flipped classroom approach for TOEIC study by analyzing 37 relevant studies and synthesizing their research results about the integration of the flipped classroom model into TOEIC preparation courses. The objective is to provide valuable insights into the potential advantages of adopting the flipped classroom model in TOEIC preparation courses. This comprehensive review of existing literature helps reveal the multifaceted benefits of the flipped classroom in TOEIC study. The research provides insights for teachers and curriculum developers to integrate the flipped classroom into students' TOEIC learning with respect to enhancing student engagement, learning outcomes, and critical thinking skills. The research might serve as a comprehensive reference for optimizing students' TOEIC preparation.

Key words: flipped classroom, TOEIC, benefits, engagement, learning outcomes, critical thinking

INTRODUCTION

The flipped classroom (FC) model has been considered an innovative approach to education, which emphasizes learner-centered learning by reversing traditional teaching methods (Hsieh et al., 2017b). Prior
to class, instructors introduce learners to learning materials through videos or other pre-class activities, allowing for in-class time to be focused on discussing, problem-solving, and hands-on activities (Zou et al., 2020). The model is flexible and can be adapted to various educational settings, including language teaching and professional education, by leveraging technology to seamlessly blend learning across contexts and promote active, collaborative learning experiences (Hwang et al., 2015; Long et al., 2017) 3,4.

18 ficient in-class time usage by focusing on active,
19 problem-based learning, it has grown in popularity
20 due to technological advances and changing educa21 tional ideologies. The FC is currently a transformative
22 model in higher education, adapting to contemporary
23 conceptual needs (O'Flaherty & Phillips, 2015) 5. The
24 FC approach challenges traditional instruction by re25 versing in-class and at-home activities. It addresses
26 challenges such as the need for effective in-class de27 signs and seamless learning across contexts (Hwang
28 et al., 2015) 3. To find best practices and solutions

29 to these issues, it is essential to study and assess sev-

30 eral aspects of the FC concept, including its benefits

17 origins. Initially recognized for enabling more ef-

and challenges, which will facilitate enhanced comprehension of this methodology for both researchers and educators, enabling them to make well-informed choices about study design and instructional strategies. In the limited scale of this paper, our focus is on the FC benefits.

The Test of English for International Communication (TOEIC) is an essential measure for non-native English speakers, assessing proficiency in English as a second or foreign language with a focus on listening and reading comprehension. It plays a vital role in facilitating international communication 42 and employment opportunities for non-native speakers (Dari & Zasrianita, 2021)⁶. TOEIC scores are essential in academic and employment settings worldwide, especially in Asia, because the relationship between TOEIC scores and language proficiency interview ratings proves their reliability as an indicator of 48 English language proficiency of employees of various 49 types, which emphasizes the importance of TOEIC for non-native English speakers in global communication (Wilson et al., 2004) 7. Thus, we can easily understand the reason why TOEIC has been one of the best choices for learners for their graduation learning outcomes at universities worldwide.

However, many learners face several difficulties in their TOEIC exam preparation. Some influential factors may come from disparities in linguistic competence, differences in critical thinking levels, and fluctuating engagement levels (Guntur & Rahimi, 2019)⁸.

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61 Also, the cultural content of TOEIC can lead to chal-62 lenges for both learners and teachers, highlighting a potential bias affecting test results (elHadad et al., 2017); other educational challenges, such as transitioning to adult learning environments for international learners and social, institutional, and personal obstacles (Khong & Saito, 2014)9, all further entangle learners in TOEIC preparation. As a result, it is essential to adopt inclusive and equitable teaching approaches that help support learners through such challenges.

Currently, in the digital era, the FC approach has been considered one of the innovative teaching methodologies. It helps improve TOEIC study by creating an engaging and interactive learning environment. Learners come prepared for class, and inclass time is used for interactive activities to deepen their understanding of the subject matter, addressing multiple learning dimensions at once. Many studies worldwide highlight the evolution and effectiveness of flipped teaching as a pedagogical method that promotes flexibility, creativity, and more learnercentered education, crucial for language proficiency improvements (Franqueira & Tunnicliffe, 2015)¹⁰, the potential to enhance learner engagement and reduce academic dishonesty, implying broader applicability and benefits in language learning contexts, including TOEIC preparation (Sharma et al., 2015; Hoxie et al., 2015) 11,12, the integration of Information and Communication Technologies (ICT) to increase the effectiveness in engaging learners and providing access to preparatory content, an important support for TOEIC learners (Isidori et al., 2018) 13. Thus, the role of innovative methodology like the FC, is increasingly critical in language education, offering a structured, learner-focused approach that significantly benefits TOEIC study.

This paper is library research on the use of the FC model in TOEIC preparation, focusing on its potential benefits. The research aim is to review existing literature on the FC approach in the context of TOEIC study to understand its benefits. Our specific objective is to investigate the benefits of implementing the FC model in TOEIC preparation courses. This paper offers valuable insights for teachers and curricu-106 lum developers who wish to enhance their learners' TOEIC learning experience with the use of the FC method. By providing a comprehensive reference, the paper can serve as a guide to optimize learners' 110 TOEIC study and help them achieve their language 111 learning goals more productively.

METHODOLOGY

The paper employed a qualitative method, using data 113 collected from academic databases and educational 114 journal websites. The data collection and analysis 115 were based on specific criteria. In detail, the inclusion and exclusion criteria were strict to ensure that 117 only papers published officially, updated if possible, 118 written in English, and directly related to the application of the flipped classroom in language learning 120 were considered (Doe & Adams, 2020) 14. The selection process involved a two-phase approach: an initial 122 screening based on titles and abstracts, followed by a 123 thorough full-text review to finalize the selection (Lee. 124 2019) 15. This rigorous selection mechanism was pivotal in synthesizing the literature to distill the benefits of the FC approach in TOEIC preparation (Kumar, 127 $2023)^{16}$.

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To be more specific, the first step involved conduct- 129 ing an extensive search of academic databases such 130 as PubMed, Web of Science, and Google Scholar 131 using specific keywords (Smith, 2022) 17, including 132 "flipped classroom," "TOEIC preparation," "TOEIC 133 study," and "benefits". The collected data, including 134 37 studies, was then analyzed to identify common 135 themes, namely student engagement, learning out- 136 comes, and critical thinking related to the use of the 137 FC approach in TOEIC preparation. We described 138 how the literature was critically evaluated in terms of 139 methodological quality and the strength of evidence 140 regarding the FC's effectiveness, ensuring that the review provides a comprehensive overview of current 142 knowledge in the literature.

OVERVIEW OF THE FLIPPED CLASSROOM APPROACH

What is the flipped classroom approach?

The FC is a contemporary approach that allows for 147 the completion of lessons and homework outside of 148 the traditional classroom environment. In detail, it is 149 a teaching method where learners are presented with 150 new information via videos, enabling them to study 151 independently at home and make use of features such 152 as stopping, rewinding, and repeating the videos; dur- 153 ing instructional periods, learners participate in prac- 154 tical exercises and use acquired information under the 155 supervision of the instructor (Hsieh et al., 2017b)¹. Although this approach does not completely remove 157 the need for instructors, their function remains essential and is shown by their ability to identify learn- 159 ers' needs and facilitate their engagement in profound 160 learning activities (Hung, 2017)¹⁸. Consequently, 161 180

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lo2 learners are not only given a versatile learning setting but also actively participate in exchanges. Particularly, they have the chance to engage in cooperative activities with both their classmates and instructors, allowing them to explore subjects in greater depth. This approach to education emphasizes the learner's needs and preferences (Amiryousefi, 2017; Chuang et al., 2018; Zou, 2020) ^{2,19,20}. Technology integration is an essential part of the FC approach (Tomas et al., 2019) ²¹.

How to implement the flipped classroom inlanguage teaching

174 The FC model has four basic components which are 175 represented in the acronym FLIP (Hamdan et al., 176 2013)²². In details:

Flexible environment: The teaching environment has
 shifted to flexible arrangements based on learners' acquisition speed.

- Learning culture: The traditional teachercentered approach to education is being replaced by a learner-centered approach that encourages active learning and a deeper understanding of lesson materials.
- 2. Intentional content: The provision of materials to learners requires careful selection and purposeful design to reinforce knowledge content through classroom activities.
- 3. Professional educator: The teacher's roles have shifted from communicators to leaders. Nevertheless, he/she still needs to monitor learners' learning processes closely to assess their level of education, absorb individual knowledge, and promptly provide feedback to help them acquire knowledge and skills.

Thus, it is important to keep in mind that these components make up the four important "pillars" of the FC approach. Obviously, teachers and learners have the flexibility to control the FC learning environment at their convenience. However, teachers should be fully aware that the FC environment could be complicated, but it provides learners with the opportunity to learn at their own pace, removing the constraints of time and place (Enfield, 2013)²³. Once the FC learning model is completely learner-centered, teachers need to encourage learners to explore sub-207 jects more deeply and guide them to reach informa-208 tion as well as test learners' knowledge with various assessment methods (Grover & Stovval, 2013)²⁴. As 210 for learning content, teachers must design the content 211 by thinking about which points are important, how

they are related to the learning objectives, and where the learners have the most difficulty (Hamdan et al., 213 2013) ²². Teachers play a crucial role in this model as they design the curriculum by identifying important points, relating them to learning objectives, and considering the areas where learners face difficulty. They also continuously observe, give guidance and feedback, and evaluate learners to enhance interaction and communication with learners in class (Flumerfelt & 220 Green, 2013) ²⁵.

Employing the FC approach requires a strategic re- 222 structuring of traditional educational roles and en- 223 vironments. The first step is to invert the conven- 224 tional sequence of content delivery and homework. 225 This means teachers can create or curate video lec- 226 tures, readings, and interactive materials for learners 227 to engage with at home, which allows for more in-class 228 time for active learning exercises (Bergmann & Sams, 229 2012)²⁶. The FC approach also emphasizes the ap- 230 plication of language skills in the classroom through 231 collaborative activities, discussions, and personalized 232 tutoring, which aligns with the communicative ap- 233 proach to language learning (Richards & Rodgers, 234 2001)²⁷. The transition to an FC model requires 235 teachers' careful planning, including the selection of 236 relevant and accessible materials and the preparation 237 of engaging in-class activities that build upon the pre- 238 class assignments. In addition, ongoing assessment 239 and feedback are critical to ensure that both in-class 240 and at-home components are effectively contributing 241 to language acquisition goals; it is a must for teachers' 242 preparation and readiness to offer support to learners 243 who are new to this learning model and adjust strate- 244 gies based on their feedback and performance (Ham- 245 dan et al., 2013) 22.

Overall, the FC approach involves pre-recorded video lectures or digital materials that students can access anytime and anywhere. In class, learners engage in interactive activities, discussions, and problem-solving exercises, which help them build their language skills through practical application. It can be used as a tool for language teachers who want to create a more collaborative and interactive learning environment that emphasizes the practical application of language skills. With careful planning and ongoing assessment, this approach can help learners develop a deeper understanding of the language and improve their overall proficiency.

BENEFITS OF THE FLIPPED CLASSROOM FOR TOEIC STUDY

After conducting a thorough and comprehensive review of the existing literature on the FC approach 263

in the context of the TOEIC study, we have categorized the benefits into three major themes: *enhancing learners' engagement, improving learning outcomes*, and *developing critical thinking skills*. These themes are presented and discussed in a detailed manner below, taking into account the various factors and variables that demontrate the benefits of this approach.

Enhancing learners' engagement

As mentioned above, the two first pillars of the FC model are a flexible environment and a learning culture. Thanks to them, learners have the freedom to choose the time, place, and manner of accessing study materials prior to class, which shifts the learning environment from being teacher-centered to being learner-centered (Hung, 2017a; Zou, 2020)^{2,18}. Thus, the shift towards a participatory and personalized "guide on the side" approach to teaching challenges traditional methods of instruction. This learner-centered model aims to create a more engaging and personalized learning experience, resulting in increased learner engagement (Arnold-Garza, 2014)²⁸.

Learner engagement can be seen clearly when learners are encouraged to read or watch recorded lectures as extra resources outside of class. Indeed, they need to absorb and assess knowledge before going to class (Bachiller & Badía, 2020)²⁹. In contrast to more traditional methods of instruction, the FC model encourages learner agency and participation in class (Karjanto & Acelajado, 2022)³⁰. After that, with the teacher's guidance, learners use what they've learned to complete group projects that center on addressing problems (Huang et al., 2023)³¹.

To be more specific, the FC paradigm helps enhance learners' engagement in various forms:

(1) Autonymy: The FC model offers learners more autonomy to access course materials at their own pace (Torío, 2019)³². The FC style is widely acclaimed for its adaptability in the learning process. By providing convenient access to resources and lectures, learners have the autonomy to choose their own strategy for acquiring information according to their own schedules and availability (Brame, 2013) 33. This approach promotes a more thorough and inclusive form of learning that takes into account the diverse range of learning requirements, including the necessity to manage several responsibilities in one's life. It then fosters autonomy and self-regulation in learners' learning processes by allowing them to control their time and access resources based on their individual requirements. As a result, it enhances over-315 all educational experiences. In higher education, the FC model provides a cost-effective way to teach learners the skills they'll need for the modern workplace while also meeting the increasing demand (Zhao et al., 2021) 34. This approach reduces instructional time, offers hands-on learning opportunities, and enhances learners' readiness (Jiang et al., 2022) 35.

(2) Motivation: There is positive evidence that the 322 flipped classroom paradigm influences learners' motivation. Implementing this paradigm improves the 324 learning environment by making it more engaging 325 and thrilling, therefore increasing learners' willing- 326 ness to study, which aids them in achieving higher 327 learning outcomes (Zainuddin & Halili, 2016) 36. The 328 FC model relies heavily on active learning, which 329 is mostly focused on progress and development. 330 This is the basis of sophisticated educational ap- 331 proaches, which prioritize active engagement over 332 passive learning. Learners are advised to acquire a 333 thorough understanding of the course material prior 334 to attending class, often by engaging in online lec- 335 tures, readings, or interactive exercises. Prior to the 336 start of class, active engagement is crucial not only for 337 fostering more profound conversations during class 338 time but also for enabling learners to assume accountability for their learning encounters and investigate 340 subjects at their own speed. By fostering such active 341 engagement, learners are motivated and inspired to participate more actively in their learning. Engaging 343 in this activity aids in the cultivation of one's capac- 344 ity for independent learning and the ability to solve 345 problems, which are essential qualities for achieving 346 success in education and everyday life (Chuang et al., 347 $2018)^{20}$.

(3) Interaction: The FC approach cultivates collabo- 349 ration among learners and facilitates interaction be- 350 tween teachers and learners during the teaching and 351 learning process (Güler et al., 2023)³⁷. It maximizes 352 the use of class time by promoting more engagement 353 through the interaction between learners and instructors. Prior to class, learners have already viewed educational information online instead of spending time 356 on direct knowledge delivery. Teachers may use class 357 time more effectively by engaging learners in interactive activities, which in turn facilitates a more pro- 359 found comprehension of the subject matter (Bishop 360 & Verleger, 2013) 38. Moreover, this approach fosters 361 a conducive atmosphere for constructive engagement 362 between learners and instructors via the facilitation of 363 conversations and joint project endeavors. This not 364 only enhances their comprehension of the lesson but 365 also cultivates a feeling of affiliation with the learning 366 process within the same group (Hsieh et al., 2017a)³⁹. 367 Instead of receiving direct instruction during class, 368 369 learners are obligated to interact with educational re-370 sources prior to the session, and they can use their 371 free time to access resources and partake in indepen-372 dent study activities while also engaging in interac-373 tive pre-class activities such as answering questions 374 or completing relevant tasks; and timely feedback en-375 ables learners to evaluate their comprehension and 376 adapt their learning approaches, promoting growth 377 via feedback and instilling their confidence (Abeysek-378 era & Dawson, 2015) 40.

The studies outline the benefits of the FC model in enhancing student engagement with learner-centered environments in which learners can access learning materials at their convenience. This shifts the traditional teacher-centered approach to a more interactive, guide-on-the-side method, which not only increases engagement but also allows for autonomy and motivation.

Improving learning outcomes

According to existing literature, the FC model is a successful method of education that offers numerous advantages for enhancing learners' outcomes. The FC format may improve learners' understanding, document retention, and academic achievement (Mardiha et al., 2023) 41. When provided with diverse and well-designed materials, learners can achieve better preparation, participation, and performance in class. Moreover, their teacher's support and feedback can effectively aid them in acquiring knowledge and skills. This is apparent from a multitude of investigations and educational assessments. The FC style has improved learners' comprehension, language skills, and TOEIC scores.

402 (1) Personalized learning: Bergmann & Sams (2012)²⁶ affirm that personalized learning under the FC paradigm allows learners to adapt to the speed of learning and cater to their own needs and talents. They have the ability to examine things in order to enhance comprehension and tackle particular difficulties. Proficient learners may prioritize their 409 study time by concentrating on more crucial sub-410 jects. This adaptability not only boosts involvement and dynamic learning but also enhances academic 412 results. Personalized learning is based on the prin-413 ciples of constructivist learning theory, which em-414 phasizes the active participation and meaningful, en-415 during educational experiences of learners. This ap-416 proach offers a highly individualized learning expe-417 rience, enabling learners to go at their own speed 418 and revisit courses as necessary. Studies conducted 419 by Hung (2015) 42 and Alsow Studies conducted by Hung (2015) ⁴² and Alsowat (2016) ⁴³ observe that structured and semi-structured flipped classroom formats result in statistically significant improvements in students' TOEIC performance through their higherorder thinking skills, with the experimental group performing better than the control group after being taught using the FC. The group with intervention is better at analyzing, evaluating, and creating their assignments and classroom discussions thanks to their higher-order thinking skills at their own learning speed.

(2) Higher scores: Obari & Lambacher (2015)⁴⁴ indicate that the FC style has a positive impact on 432 TOEIC scores through an evaluation of the effec- 433 tiveness of a flipped classroom compared to a tra- 434 ditional classroom on first-year and third-year un- 435 dergraduates' TOEIC scores. The FC lessons lead to 436 a notable increase in TOEIC scores, demonstrating 437 the effectiveness of the flipped classroom in enhanc- 438 ing language learning outcomes. This approach, sup- 439 ported by mobile technologies and a variety of ma- 440 terials, is preferred by students and leads to a signif- 441 icant improvement in English-speaking test results. 442 Specifically, in Borasheva (2024) 45, the FC approach 443 helps enhance learners' reading and listening comprehension in TOEIC courses and preserve their abil- 445 ity to write summaries by prioritizing active learn- 446 ing and learner involvement. Moreover, this strategy 447 has the potential to enhance academic performance 448 and the ability to retain information since learners 449 have much superior abilities in summarizing written 450 content compared to learners in conventional educa- 451 tional settings.

(3) Language skill enhancement: Lies (2016) 46 ex- 453 amines the FC impact on learners' listening and read- 454 ing proficiency through TOEIC scores and linguis- 455 tic self-confidence through their self-reported profi- 456 ciency levels. The findings showed statistically sig- 457 nificant improvements in learners' listening skills as 458 measured by TOEIC scores and self-perceived abil- 459 ity thanks to FC learning, a significant increase in 460 learners' confidence in producing language through 461 speaking and writing in English, which suggests that 462 the FC learning not only improves language skills but 463 also boosts learners' confidence in using the language. 464 Based on the favorable results and feedback from par- 465 ticipating learners, the study concludes that the FC 466 method is effective for foreign language instruction, 467 particularly in enhancing listening skills and linguistic 468 self-confidence. In addition, Aydin et al. (2020) 47 an- 469 alvze the effect of the flipped learning model on learners' academic success. They employ a descriptive sur- 471 vey model, quantitative research methodology, and 472 473 meta-analysis of previous studies. The findings point 474 out that there was a statistically significant improvement in academic performance among learners participating in flipped learning environments compared to traditional learning settings. Also, the effectiveness of flipped learning on learner success is consistent across different study types, educational levels, and over the years examined. These studies show that the FC approach enhances academic performance and crucial skills in TOEIC preparation, such as listening and reading compre-484 hension and summarization, through learners' active 485 learning, personalized learning, and adjusting learn-

underscoring its potential to improve language learning outcomes.

486 ing pace and needs. All in all, the FC approach is

proven to significantly boost learners' TOEIC scores,

Developing critical thinking skills

The FC approach involves utilizing classroom time to allow students to work together in groups to tackle complex and challenging problems. This approach has proven to be highly effective in developing critical thinking skills in learners across a variety of disciplines, including TOEIC courses. It can be seen as a product of the combination of the four FC pillars. The impact of the FC approach on learners' critical think-499 ing skills can be better understood by examining the findings of selected studies, which demonstrate the effectiveness of this approach in fostering learners' ability to analyze, evaluate, and synthesize information from multiple learning materials and assignments before class.

(1) Critical thinking disposition: Dehghanzadeh & Jafaraghaee (2018) 48 employ post-intervention assessments using Ricketts' Critical Thinking Disposition Inventory and find that students in the FC group had significantly higher scores in overall critical thinking disposition, particularly in the engagement domain compared to those in the traditional lecture group. Their finding suggests the FC's potential for broader educational applications. Similarly, Asmara et al. (2019)⁴⁹ employ a quasi-experimental design to measure changes in critical thinking skills, specifically focusing on the skills of inference and explanation through pretest and posttest scores analyzed using ANOVA. The findings revealed that after using intensive flipped classroom activities, including video lectures as homework and group discussions in class, the intervention effectively enhanced students' crit-522 ical thinking abilities, supporting their capability to 523 explore and develop their thoughts.

(2) Critical thinking practice: Smith et al. (2018)⁵⁰ prove that the FC is an effective method for teach- 525 ing critical thinking because it helps provide students 526 with practical critical thinking skills. In detail, they 527 taught students explicit critical thinking principles 528 through online units, and classroom time was used for 529 application exercises, effectively improving students' 530 critical thinking skills. The FC model not only facili- 531 tates improved critical thinking skills among students 532 but also engages them more actively in the learning 533 process through practical application during class ses- 534 sions. Nugraheni et al. (2022)⁵¹ synthesize the findings of 16 studies published from 2015 to 2020. In 536 their conclusions, the FC model is effective at developing critical thinking skills in students because it 538 facilitates various learning activities both inside and 539 outside the classroom, promoting active and engaged 540 learning; it can be effectively integrated with other 541 teaching methods and technologies, which allows for 542 a variety of learning activities that support critical 543 thinking. Also, it supports active learning, which 544 has a positive correlation with improved academic 545 performance, student engagement, and the develop- 546 ment of critical thinking skills. Especially, students 547 use technology in the FC via online platforms for 548 pre-class learning activities and interactive classroom 549 technologies, which require them to employ their critical thinking.

It can be seen that the FC model offers an efficient 552 method for boosting critical thinking abilities by in- 553 tegrating technology and active learning tactics. The 554 studies all support the notion that FC enhances critical thinking by utilizing video lectures, group discus- 556 sions, and hands-on exercises. Also, it fosters stu- 557 dent participation and can be customized to suit di- 558 verse teaching styles, thereby helping students to refine their cognitive abilities.

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DRAWBACKS AND SUGGESTED SOLUTIONS OF THE FLIPPED CLASSROOM FOR TOEIC STUDY

Drawbacks of the flipped classroom for 564 **TOEIC study**

Limitations in technology, difficulty for instructors, 566 and problems encountered by students are some of 567 the drawbacks of the flipped classroom concept. To 568 begin, insufficient technology resources may make it 569 difficult for students to access essential learning ma- 570 terials (Bishop & Verleger, 2013) 38. It is important to 571 address digital skills and provide older learners with 572 the tools they need, since they may need help navigat- 573 ing online and may benefit from advice and support 574 575 (Brame, 2013)³³. The second major obstacle that in-576 structors must overcome is the necessity to tailor inclass activities to each student's unique requirements based on pre-class assessments of their knowledge (King & Boyatt, 2015)⁵². Furthermore, instructors often face a substantial amount of work since they do not possess the necessary technical and pedagogical expertise (Vuong et al., 2019; Nhac, 2021) 53,54. Lesson preparation, grading, and professional development are areas where they struggle. They also spend a lot of time preparing courses and materials, but they don't have the abilities to create instructional films (Al-Ghamdi & Al-Bargi, 2017; Jaster, 2017; Lo, Lie & Hew, 2018) 55-57. Lastly, students encounter challenges since the flipped classroom approach places a strong emphasis on self-directed learning, which includes activities like viewing lectures or reading prior to class (Paristiowati et al., 2019) 58. While some students may find it easier to stay motivated to do preclass assignments in a typical classroom environment, others may find that they spend too much time at home viewing videos and preparing materials. Students, especially those with lower language abilities or younger ages, may not benefit from flipped classroom approaches in all situations (Hao, 2016; Shyr & Chen, 2018) ^{59,60}. This group of pupils may

struggle to take initiative in class and may not come prepared. According to Jaster (2017)⁵⁶, some students still have trouble finishing even the most basic assignments, and according to Lo, Lie, and Hew (2018)⁵⁷, some students just don't have the selfcontrol or interest to really engage with the course topics. They may have trouble learning due to issues including not comprehending what they view on home videos (Hwang, Yin, & Chu, 2019)⁶¹, not managing their time well (Gavrilova, 2020)⁶², and having trouble self-regulating (Vuong et al., 2019; Hau, 2022)⁵³. Lack of access to essential materials is another obstacle that students in rural regions often encounter. A digital gap may occur when certain pupils do not have the resources necessary to access the internet or necessary equipment such as phones or laptops (Sarah & Yousif, 2016). Student engagement and learning may be negatively impacted by technical concerns such as sluggish internet speeds, computer malfunctions or disconnections (Nguyen & Nguyen, 2022), and inexperience with databases (Khusniyah & 622 Husnawadi, 2022) 63.

623 Suggested solutions of the flipped class-624 room for TOEIC study

625 As a precondition to actively involving students in 626 the learning process and making any modifications,

professional development and comprehensive session 627 preparation are critical to the success of the flipped 628 classroom approach. As an example of how educa- 629 tors can help bridge the digital divide and guarantee 630 that all students have equal access to resources, Bishop 631 and Verleger (2013) 38 suggest that schools should establish common study rooms with internet and com- 633 puters and provide students with PDF materials that 634 are equivalent to online preparations. Additionally, 635 it is advised to make use of computer labs and other 636 resources to provide a welcoming and easily naviga- 637 ble learning environment (Lee & Wallace, 2018)⁶⁴. 638 Short videos, films, books, and interactive activities 639 should all be included in the resources to support diverse learning styles (Wilson, 2013)⁶⁵. According to 641 Adnan (2017)⁶⁶ and Lee & Wallace (2018)⁶⁴, combining different relevant content improves engage- 643 ment and makes learning more effective. It is the responsibility of the instructor to monitor and evaluate the students' engagement and comprehension be- 646 fore allowing them to work in groups (King & Boyatt, 647 2015)⁵². Careful lesson planning, the incorporation 648 of online learning resources, the creation of a positive 649 classroom environment, and the implementation of 650 effective interventions and supplementary assistance 651 are all essential responsibilities of educators (Adnan, 652

According to Hsieh et al. (2017)³⁹, Wu et al. 654 (2017)⁶⁷, and Yang et al. (2018)⁶⁸, students may benefit from the flipped classroom model if they are informed about it and encouraged to engage in pre- 657 lesson activities. One useful strategy for spreading 658 the word about the flipped classroom model is to host 659 online seminars or webinars. Teachers may help students cope with a mountain of pre-lesson reading by 661 posting resources to the learning management system 662 (LMS) in readily searchable folders and organizing 663 them logically according to lesson and date (Tucker, 664 2012)⁶⁹. By providing students with explicit and detailed instructions, this method aids their comprehension of both in-class and independent practice activities (Bergmann & Sams, 2012)²⁶. Teachers should 668 be able to intervene effectively to make sure students 669 do their homework before class and provide extra help 670 if they need it, and they may also provide brief exam- 671 ples in class to reinforce lesson needs.

CONCLUSION

Summary of the benefits of the FC approach 674 in TOEIC study

After conducting an in-depth review of the available 676 literature, we have identified three main categories 677

678 of benefits obtained by incorporating the four com-679 ponents of the FC approach in TOEIC preparation courses. These benefits refer to learner engagement, learning outcomes, and critical thinking skills.

First, the FC model is a learner-centered approach that enhances student engagement by promoting autonomy, motivation, and interaction. It provides a flexible learning environment, allowing learners to access study materials at their own pace and place. This personalized learning experience promotes autonomy and self-regulation, fostering a more inclusive and thorough learning process. In addition, this model involves active learning techniques such as online lectures and interactive exercises before class, which increase student motivation. Especially, it enhances collaboration among learners and between learners and teachers, utilizing class time for interactive activities that deepen learners' understanding, foster community, and improve communication skills.

Second, studies have shown that the FC model can greatly benefit students, fostering a sense of achievement in terms of academic success, information retention, and understanding. The key to this success is its ability to cater to individual learning styles and preferences, enabling learners to learn at their own pace and focus on areas that require more attention. Furthermore, the FC model has been found to significantly enhance language skills such as listening, reading, and linguistic self-confidence, making it an ideal tool for those preparing for language assessments like TOEIC. It has been evidenced that the FC model can have a noteworthy impact on TOEIC scores when compared to traditional classroom settings, primarily due to its ability to keep learners engaged.

Third, the key insights provided by the existing research demonstrate that the FC approach results in better critical thinking skills compared to traditional lecture-based teaching. The FC model improves critical thinking through interactive and collaborative activities. Learners develop analytical, evaluative, and synthesizing skills by engaging in group problemsolving and practical application of concepts. In addition, technology facilitates pre-class learning, and interactive technologies promote active and engaged learning, which is closely linked to critical thinking.

Pedagogical implications

Given the significant findings from our review, we can propose key pedagogical implications specifically tai-726 lored for teachers and curriculum developers, all of which are designed to maximize the benefits of the FC 728 model.

To enhance learner engagement

Teachers should be encouraged to implement flexi-730 ble learning environments that empower learners to choose when and where they want to learn. It is ben- 732 eficial to adopt active learning strategies that engage 733 learners with the learning materials that teachers intentionally design for the FC use. Teachers should 735 professionally instruct learners on how to learn theoretical content at home and apply it in class. During 737 class time, teachers should focus on practical applications, discussions, and group projects that require 739 active participation from all students, to ensure that 740 learners are fully engaged with the learning materials. 741 Curriculum developers should prioritize integrating 742 technology and resources that facilitate flexible learn- 743 ing in TOEIC preparation. This will help create active 744 learning environments where students can customize 745 their learning experiences with various TOEIC tasks, 746 leading to more effective motivation. They should 747 also give more room for autonomous learning strategies in the curriculum, promoting self-regulation and 749 motivation. Moreover, it is important to develop curricula that encourage collaboration and interaction, 751 as this plays a vital role in enhancing learner engagement.

To improve learners' learning outcomes

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Teachers should consider maximizing classroom time 755 for interactive and practical activities for students to 756 improve their understanding and retention. There 757 should be a combination of online lectures, interactive exercises, and mobile learning platforms to sup- 759 port active and accessible learning environments. To 760 maximize their roles as professional educators, teachers should also create assignments and class discus- 762 sions that promote learners' performance and imple- 763 ment continuous assessment and timely feedback for students to understand their progress and areas for 765 improvement. The learning activities are quite crucial 766 for learners' academic success, and the ongoing evaluation process supports their more responsive and effective learning experience.

Curriculum developers should design learning tasks 770 and activities that can be tailored to meet each student's unique needs. They should provide learners 772 with TOEIC resources that cater to varying learn- 773 ing speeds and styles so that they can improve academic outcomes. Additionally, incorporating contin- 775 uous assessment forms in the curriculum can help 776 foster deeper understanding among students, leading to more constructive and effective learning performance

To develop learners' critical thinking

Teachers can implement effective strategies in the FC

model to make students come prepared to class and join the class in a productive manner. In the FC's learning culture, teachers should explicitly instruct learners on critical thinking principles and give them opportunities to apply them in class; teachers can promote the development of these skills. Structured exercises that challenge students to think critically about the material they have learned can be particularly helpful. Additionally, continuous assessment strategies can be employed to monitor and enhance students' critical thinking skills. Teachers should provide constructive feedback that focuses on students' abilities to analyze, evaluate, and create. This will help students refine their critical thinking skills over time. To promote critical thinking in a TOEIC-based flipped classroom, curriculum designers can develop pre-class video lectures with embedded quizzes, facilitate collaborative discussions on complex TOEIC test passages during class, and organize problem-solving tasks. To be more specific, the curriculum should integrate pre-class video lectures, interactive quizzes, problem-based learning, and group discussions to enhance learners' academic performance. They can also provide them with some interactive apps so students can become more involved and strengthen their analytical abilities, benefiting their preparation for the TOEIC test. All in all, this research showcases the FC model's benefits in elevating learner engagement, improving learning outcomes, and developing critical thinking skills. The synthesis of the examined studies highlights this innovative approach in the TOEIC study. By integrating the FC approach, teachers and curriculum developers can significantly enhance the efficiency and effectiveness of TOEIC study programs. This research advocates for broader adoption and further exploration of the FC model in language education, offering a powerful framework for optimizing

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TOEIC preparation.

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