

# Student Participation in Classroom Discussions

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**Abstract:** *This paper aims to reveal the importance of student participation in classroom discussions and review some of the most salient definition on classroom participation, and also bring some reasons students do or do not participate in class logistics. At the end of the paper we also have some benefits of getting students to participate in Classroom discussions. Here we give a comprehensive overview of the benefits of participation, logistical issues in participation, student confidence and personality traits in participation, the instructor's influence on and suggestions for increasing participation, the role of sex in participation, and participation in web-based courses. Finally we concluded that the ideal class discussion "as one in which all students were participating, learning, and listening to others' ideas, comments, and questions, is important for the success of the class.*

**Keywords:** Student Participation, College Classroom, Student Confidence, Sex.

## 1. Introduction

Any educational system tries to provide students with the best possible conditions and towards the best educational achievements through effective strategies and policies. Elites of the world of education consider the teacher and his abilities as the most important factor in any educational process. One such ability is providing a good environment for student participation. Class participation is important for the success of the class, before considering the importance of classroom participation, it is first necessary to define the term. Wade (1994) considered the "ideal class discussion" as one in which all students were participating, learning, and listening to others' ideas, comments, and questions. With this definition, it seems that it would still be possible to be passively engaged in the classroom experience. Participation also has been defined as "the number of unsolicited responses volunteered" (Burchfield & Sappington, 1999, p. 290). The fact that researchers have similar but nearly different definitions of participation and its measurement should be kept in mind. In this article

## 2. Participation; Definition and Thought

Though teachers all tend to find out more about "class participation," and many use it in assessing students' development, what may or may not be counted as "participation" is different through individual instructors and researchers. Participation can be seen as an active involvement process which can be divided into five classifications: preparation, contribution to discussion, group works, communication skills, and attendance [1]. It is indicated that faculty perceive six levels of participation from students, moving from simply attending class through giving oral presentations [2][3] participation has been seen in different forms, including students' questions and comments [4], and it can take a short while or an extended period of time [5] [6] considered the "ideal class discussion" as one in which almost all students participate and are involved, learning, and listening to others'

comments and concepts (p. 237). It seems that researchers and instructors favor these mainly quantitative and overt means of defining participation. Although the quality of student participation is crucial, it is also much more subjective can cause some kinds of struggles and challenges. [7] Small group discussions is a good way to force students to become actively and decisively involved in the classroom discussion. He mentioned that in these small groups, students "feel like they are becoming members in the discursive community." As Mortimer Ladler once noted, "All genuine learning is active, not passive. It involves the use of the mind, not just the memory. It is the process of discovery in which the student plays the main role, not the teacher." The challenge for teacher becomes, how do you illicit the type of active participation and true replacement of ideas that we anticipate in a college classroom?

### 2.1 Class participation; Benefits

There is strong evidence for the importance of participating in class [8]. Participation is a good technique to involve "students actively into the educational process" and to assist in "increasing our teaching and bringing positive energy to the classroom" [9]. Students are more interested [10], learn better [11], become better critical thinkers [12], and have self-confidence.

Gains in character [13] when they are prepared for class and participate in discussions. The more they participate, the more they acquire, the more they do, and the more they engage in higher levels of thinking, including interpretation, analysis, and synthesis [14]. Students who participate also show development in their communication skills [15] group interactions [16] and functioning in a democratic society [17]. [18] Considering that both students and teachers can see the advantages of student participation, and [19] found that students thought participation was "essential" to their own learning. Students have been found to earn higher grades as their participation enhances [20].

Though students see participation as important, and one-third would like to participate more [21] research suggests that it is not happening, as it is only a handful of students in any given classroom who participate more [22] a phenomenon appeared “consolidation of responsibility” (p. 429). This outcome has been reconfirmed decades later in several studies [23]. [24] found that about 90% of interactions were made by a handful of students and only around one-third were regular participators, while half 188 K. A. Rocca of the students observed did not participate at all. [25] found that an average of only around one minute of a 40-minute class period was spent in student participation. [26] and [27] found that students asked only 3.3 and 3.6 questions per hour of class time, respectively, and around 73% of these were in reference to procedures, content, or clarification). Although instructors, researchers, and students all appear to perceive the importance of and seemingly want to raise participation, many students do not participate for multiple causes.

### 3. Why Do Not Students Participate in Class Logistics

There are various reasons, both speculative and empirically maintained, that students are not able to participate in class. One reason is class size, with students being more willing to participate [28] less worried about participating [29] and less likely to be able to “hide” in smaller classes than larger classes; large class size tends to ease communication. [30] found class size to be more predictive of participation than gender [31] proved that while the number of students who participate in any given classroom is often the same, courses which have more than 40 students have fewer overall communications per class period. [32] found this to be true for courses with over 35 students, and [33] found small differences based on class size in their assessment of courses with 16\_50 students.

Auster and [34] found that the courses where students reported the most participation were likely to be smaller (i.e., 10 or fewer students) than those where students reported the least participation (i.e., 40 or more students). Often, more lecturing often occurs in larger classes, which, in turn, means less participatory opportunity for students. It also is possible that just the perception of being in a large class can deter participation. For example, a course of 30 students at one university might be small, but could be perceived as large by students at another university. Large size classes, however defined, are not something we can remove on our college campuses, and thus, educators must find means to admire participation, not considering the class size. To overcome the issue of large class size, [35] suggested that students meet for smaller weekly discussion sessions with former students who had performed well in the course, and they reported that this worked well in the classroom during a trial period. Dividing the large class into smaller groups also can be helpful to facilitate discussion and to increase group activities [36] also offered ways to encourage communication in large classes, including making the lecture hall feel small and thus personal\*even if it is not\*by moving around and by talking with the students before class, and [37] noted the importance of moving into closer proximity of the Student Participation 189 students.

These suggestions are similar to instructors’ nonverbal propinquity treatments, which also have been found to increase participation.

Seating arrangement is another logistical variable which affects student participation. Even as far back as 1958, seating arrangement was considered to be a crucial factor. Though each seating arrangement can serve a purpose, [38] noted that certain arrangements and specific seats within each arrangement were more conducive to student participation. Traditional forms of seating allows for less participation than a U-shaped/circular/semicircular arrangement. Bowers (1986) found no relationship among student seating preference and classroom apprehension, but [39] found that those high in apprehension feel more anxious and stressed out in circular seating. [40] Suggested that whether or not students participate depends on how much their participation counts toward their final grades. The “pearls of wisdom” approach where students record their participation each day to count toward their end of semester scores was found to be effective in increasing participation in the assessed course and reported to increase participation in other fields. [41] Suggested that students should earn extra glory rather than counting participation as part of a student’s grade, and [42] found that rewarding students with extra credit did increase participation. Allowing students to take a part in participation grading process is helpful in increasing their quantity and quality of participation, attendance, and preparing for class, and students are appreciative of having a say in their participation grades. [43] found that when students helped to define class rules on participation, they were more likely to participate. [44] Found student self-monitoring (i.e., observing and recording one’s own behavior) of their own in-class participation to increase participation overall, as recorded by an outside observer. Moreover [45] found that giving students a mid-semester assessment of their participation encouraged increased participation throughout the semester.

The type of course can have an impact on whether students participate. Not surprisingly, students are more likely to participate and feel ease in communication courses than those in the other social sciences or the natural sciences. Students are more interested in asking questions in the natural sciences than in the arts or social classes, but more likely to talk for longer periods of time in the arts and social sciences than the natural sciences. Whether a course was a requirement or an elective did not impact student-reported comfort level, but did impact preference for seating type with the U-shaped arrangement preferred by those in elective courses, and the row/column arrangement preferred by those in required courses. Students in higher level courses were more likely to participate than those in lower classification courses. A professor’s use of media in the classroom can influence student participation. Playing on the Millennial generation’s need for interaction, [46] created a learning staff called the “Random Selector Model” to increase student participation through an interactive software program where the instructor is able to “randomly select” students and groups of students to participate in class. The authors note positive student outcome and encourage

instructors to use this model as a supplement to their own courses.

#### 4. Confidence and Classroom Apprehension

Another reason that students may not participate in class is because they are afraid of feeling inadequate in front of others, regardless of the logistics of the classroom setting. [47], [48], and [49] all noted that students may feel intimidated or inadequate in front of their classmates and professors, and as the result choose not to participate. Students even reported confidence as the most motivating factor for their participation in several studies.

This concern about being nervous and lacking confidence follows closely with McCroskey's research on communication apprehension, which can be trait- or situation-specific. Individuals who may not be particularly high in communication apprehension as a trait are still frequently worried about communicating in certain conditions (e.g., public speaking, meetings). Confidence gained by advanced preparation helps to counteract classroom apprehension, as documented by the fact that students who were supposed to talk about the topic with another student or to complete it as a homework assignment before discussing it with the entire class were more likely to participate [50] also made several recommendations to increase participation by all class members through advanced preparation. He asked students to complete readings as homework and bring to class the top five words to explain the readings; in class, words are written on the board and students explain why they were selected. He also suggested brainstorming what the lesson would cover while in class and using role-playing debates to increase participation through advanced preparation. [52] suggested having students prepare discussions in advance for weekly debates, and [53] suggested allowing students to go over their answers with a partner or in a group before stating the answers out loud to the class. [54] Also promoted advanced preparation to increase participation.

Confidence gained by classroom experience may impact willingness to participate. This is evidenced by the fact that students who are young, inexperienced, and immature are less likely to participate in class especially if they are surrounded by others who are more experienced. Nontraditional students (generally defined as those 25 years of age or older in undergraduate programs) are more likely to participate as are older traditional students (e.g., juniors, seniors). Nontraditional students are more likely to be concerned with what the instructor thinks; whereas, traditional students are more likely to be concerned with 192 K. A. Rocca what their partners think, and either could prevent students from participating. Prior experience with interpersonal and group communication increases students' participation. Closely related with the notion of feeling comfortable and confident in speaking in class, [55] found that students who did not speak English as their first language were less likely to participate. For international graduate students, the biggest reason not to participate was if they did not know the material well, or felt a "negative classroom climate." In courses where East Asian students are learning to speak English, they are said

to appreciate the opportunity to participate more and practice the language, but they still tend to feel hesitant and uncomfortable in doing so. Similarly, students who see themselves as minorities are less likely to participate in class. In several ways, student confidence plays a role in one's level of participation in any given course.

#### 5. Personality Traits

To this point, Communication Apprehension (CA) has been discussed in terms of situational, or classroom-specific apprehension, but there also has been research on CA as a trait and its impact in the classroom. For example, [56] found that students high in CA participated more when the task at hand was more structured, and she recommended offering choices in assignments that involve participation so that even those with high CA can participate more comfortably. [57], however, did find low self-esteem in general to be predictive of low levels of class participation.

Students' assertiveness and/or responsiveness also appear to determine whether or not they will participate in class. Those who are high in both traits are more likely to communicate for functional reasons, and those who are more assertive are more likely to communicate for excuse-making reasons. It also appeared from this study that students may participate for reasons dependent upon the instructor's personality combination of both assertiveness and responsiveness. Specifically, when both student and instructors were high in both assertiveness and responsiveness, students communicated for relational and sycophantic reasons. Student Participation 193 and when instructors were responsive and students assertive, students communicated for participatory reasons. Chan and [58] found that students high in the personality trait of Willingness to Communicate (WTC) were more likely to participate in class than those low in WTC across the course of the semester. Students with an external locus of control and those high in neuroticism and insecurity were less likely to participate. Similarly, students with social anxiety, those higher in private self-consciousness, and those with a mixture of the two characteristics were less likely to participate in in-class group discussions. Impact of the Instructor and Classroom Climate On top of classroom logistics, student confidence, and student personality traits, there is still evidence that the instructor contributes to students' levels of participation, and students think that their professors influence their participation based on the ways in which the professors communicate with them. [59] found that "the actions of the teacher are indeed most vital in helping classroom interaction" (p. 426) and [60] believe that a main reason students do not participate may be because of the teacher.

Specifically, students are less likely to participate if their instructors do not pay attention to them, make fun of them, put them down, or are very serious of them. Similarly, [61] found that offensive behaviors involved by instructors, including using sarcasm and putdowns, being verbally abusive toward students, sexually harassing students, and having a negative personality had a negative influence in the classroom and on student learning, and [62] found that teachers who were considered "boring, bored, pushy, moody, close-minded, too opinionated,

condescending, and unfriendly” (p. 23) were likely to be faced with students who do not participate in class. Even lecturing too often decreases professors’ ratings and student participation [63]. [64] Found that students high in classroom apprehension feel nervous if the teacher stops talking or challenges them, and [65] noted that when teachers challenged their students verbally, students were likely to become defensive and perceive the instructor as looking down on them. When students recognize their instructors as verbally aggressive, they are less likely to participate.

Alternatively, a climate where students and the teacher respect each other, where the students respect one another, and where the teacher cares about the students, is conducive to class participation, as it is this type of classroom climate that works to rise student confidence and relaxation in participation. [66] Said that it is important for instructors to encourage students to be respectful yet serious, while at the same time seeing the value in their ideas and admiring students when appropriate. [67] Noted that students were more motivated to speak up in class if they perceived their instructors as inclusive and appreciative of them and as using verbal approach strategies. They were also more likely to participate if they observed their instructors as physically or socially attractive. [68] Also found a positive relationship between teacher verbal and nonverbal feedback and student participation. [69] Noted that student-centered rather than teacher-centered classrooms were more likely to have students with higher levels of participation; the ratio of professor:student speaking time was 58% to 42% in student-centered classes and 68% to 32% in teacher-centered classes. [70] Also found that students were more likely to participate if they considered the atmosphere to be supportive, and noted that the professor should work to create this type of situation by providing positive feedback and handling contentious topics with grace. Though it would seem to impact a “comfortable” environment, the authors found that students’ concerns about appearing “politically correct” (e.g., nonracist, nonsexist) did not impact their level of partaking in the classroom. [71] surveyed both students and professors and found that higher participation classes were more supportive, cooperative, and student-centered, had students who were less concerned about what others thought and interested in their classmates’ opinions, and had professors who were approachable and knew their students’ names. It also has been found that students are more likely to ask questions if they notice higher levels of support and lower levels of threat from their professors.

As part of creating a supportive climate, there are several characteristics of teachers that may encourage students to participate. One is being a good listener and Cohen found that instructors can do this by listening to their students’ comments and questions without judging them, even if instructors do not agree with or want to listen to those explanations. Other teacher characteristics that can help to increase participation include: “enthusiasm and skills as a facilitator of discussion”, supportiveness, and patience and respect. [72] Suggested motivating students to participate by letting for success, emphasizing cooperation over competition, setting high expectations, and Student Participation 195 asking questions in a way that supports interaction. Following this suggestion of asking questions

that encourage engagement, [73] proposed that questions of interpretation, rather than of fact or assessment, are the only ones enough to have a good class discussion because there are no right answers. [74] Suggested asking fewer questions of fact. [75] suggested that instructors work on questioning techniques, start the course with task-oriented questions, and have individual progress meetings with students\*all to encourage question-asking in the classroom setting. [76] Suggested asking questions to which instructors do not know the answer themselves and asking students whether or not they agree with other students’ explanations. [77] found that the specific type of participation (e.g. direct questions, comments, factual questions) that students are best at answering will influence whether they will participate or not, with all students favoring different types of questions.

Related to the type of question asked is the “wait time” allotted to answer those questions. [78] recommended increasing wait time, and [79] suggested that teachers should increase wait time to 3\_5 s instead of 1 s as is typical, and that they should purposely wait for students to elaborate on their answers before making any comments. [80] opposed that when teachers speak rapidly and do not allow for enough wait time, students recognize that their participation is unwanted. Though it may seem counterintuitive to the finding on listening noted above, teacher self-disclosure has been found to have an impact on student participation. Goldstein and [81] noted both students and teachers reported higher levels of student participation when instructors self-disclosed. The writers noted that these findings reveal that the reciprocity effect is in existence, that self-disclosure makes the atmosphere more personal, and that the power differential between the students and teacher decreased. In a follow-up study, [82] found no relationship between observed student participation and observed instructor self-disclosure, but a few years later, [83] again emphasized the importance of instructor self-disclosure in student participation, noting that it lessens the status differential between teachers and students, and in 2009 [84] found self-disclosure to be related to an increase in the participatory communication motive. A reason for these conflicting findings on the impact of instructor self-disclosure on participation may be due in part to what type of information the teacher discloses. When students identify their teachers as having similar backgrounds or attitudes as them, they are more likely to take part, and less likely to participate if their instructors’ political views are different from their own. [85] promoted instructors using empathy and getting to know students as individuals, allowing students to think that their professors care about them, thus increasing their participation. Similarly, [86] found that the single largest predictor of a student’s participation was “faculty-student interaction” both in and out of the classroom setting (p. 587). When professors affirmed students’ 196 K. A. Rocca participation and ideas, students were more likely to participate. [87] and noted that this type of caring atmosphere will encourage participation among students and between students and teachers.

Another way the instructor can impact participation is through his/her level of “eye contact availability”. In this study, the teacher stood at one of four spots around the table in the classroom, ranging from high to low in eye contact

availability with two of the four positions showing medium eye contact availability.

According to viewers, when the instructor had high eye contact availability, students in those areas were more likely to participate than those in low eye contact availability areas. [89] found that there were several relationships among teacher variables and student-perceived participation, but overall, student and logistical variables predicted 37% of the variance in class participation. However, within that 37%, student confidence was the largest predictor, and of that predictor, there were six variables that predicted confidence, one of which is whether or not the professor is offensive. The others were related to the student and to the classroom logistics. Clearly, the instructor plays a role in encouraging or discouraging student participation, depending in part on whether he/she creates a supportive climate for the students, but it is reasonable to consider the complexity of variables that impact participation in addition to the instructor.

## 6. Sex Differences

A substantial amount of research on participation has looked at student and/or teacher sex as a means of predicting participation, and overall, the findings are mixed. [90] found male students to participate more than females, and [91] noted that this may be because they have had more practice in doing so throughout their education. [92] found that males were more likely to participate and saw their own participation and participation in general as more important than females did. The finding of males having a higher participation level is not surprising given the results of a meta-analysis on sex and self-esteem, where females were found to have lower self-esteem than males. If females do not think highly of themselves, it makes sense that they would be less likely to participate in class, given the findings noted earlier linking confidence to participation. [93] however, found that females increased their partaking when they were encouraged by an experimental program titled “women speak this week,” which permitted only females to speak in class during a designated week during the semester (p. 472). In research on communication motives, [94] found that females were more likely to take part for functional reasons and males for sycophantic reasons.

There is also evidence of differences between males and females in relation to student age. [95] found that students were likely to participate in this order: nontraditional-aged males, nontraditional-aged females, traditional-aged females, traditional-aged males, showing that the sex-age combination is more predictive than sex or age alone. [96] also found age to be a larger forecaster than sex with nontraditional students take part more than traditional students. Nontraditional-aged females accounted for 41 percent of the participation in a study, but the majority of students at that university were nontraditional females. [97] found very little evidence of sex differences in their study across three different universities, and [98] found no difference in the quantity of interactions between male and female students.

Concerning sex differences in teachers, female instructors were found to create an environment in which students would

participate more, but that was not as strong of 198 K. A. Rocca predictor as class size was for participation, and the differences between male and female teachers did not impact the amount of participation by male or female students. That is, the students participated regardless of teacher sex, but female teachers had a tendency to get both male and female students engaged more than male teachers did. [99] reported somewhat different findings. With female teachers, male students were found to speak and interrupt more often, and to speak for longer durations than female students; no differences were found in courses taught by males. Brooks concluded that these findings may be explained by considering that female professors may encourage participation more than male professors. [100] also found differences with interrupting patterns\* male professors were more likely to interrupt their students than female instructors were. [101] found that students, especially males, were more likely to ask questions of male teachers than female teachers. [102] found that students were more likely to feel comfortable with participating in female-instructor courses. [103] found that students were more likely to participate frequently in male-instructor courses, but a higher percentage of students were more likely to participate in female-instructor courses. [104] found no difference based on teacher sex in student participation levels. Overall, it seems that the creation of a comfortable classroom climate is more important than instructor sex, and that females may be more likely to create that type of environment. Again, it should be emphasized that there are mixed results for the impact of professor sex on student participation, just as there are conflicting findings based solely on student sex.

A reason that there are conflicting findings when it comes to sex differences could be the way in which sex has been measured\_ as biological sex. The findings reported thus far are based solely on biological sex, whether students are male or female. In looking at student questioning, [105] found few differences when assessing biological sex, but when looking at gender, the psychological construct, they found that students who were masculine-oriented, regardless of biological sex, were more likely to ask questions in class. In another study looking only at female participation behavior, [106] assessed the thinking and feeling dimensions (of the Myers-Briggs Type Indicator) with regard to classroom climate, and found that those scoring higher on the feeling dimension were more satisfied with the feeling classrooms, those with a lot of support and interaction, and those who scored higher on the thinking dimension had no preference; the authors purported that it is not necessarily one's biological sex that determines participation, but a personality factor related to sex. This can help in explaining the mixture of findings related to teacher and student sex, as nearly every study assesses biological sex, not gender.

## 7. Benefits of Getting Students to Participate In Classroom Discussions

- 1) Participation adds interest—it's hard to maintain students' focus and attention when all they hear is the professor talking. It helps to hear another voice as well as an answer or another point of view.
- 2) Participation engages students—A good question can pique their interest, make them wonder why, get them to

think, and motivate them to make connections with the content. This benefit is magnified when teachers play a bit with the question, when they repeat it, write it on the board, and don't call on the first hand they see.

- 3) Participation provides the teacher feedback—when students answer or try to explain, teachers can see the extent of their understanding. They can correct (or help the students correct) what the students haven't got right or don't see quite clearly.
- 4) Participation provides the students feedback—when teachers ask questions or otherwise seek student input over a topic, they are letting students know something about the importance of certain ideas and information.
- 5) Participation can be used to promote preparation—If an instructor regularly calls on students and asks questions about assigned reading or what's in their notes from the previous class session, that can get students (at least some of them) coming to class prepared.
- 6) Participation can be used to control what's happening in class—if a student is dozing off, texting, quietly chatting, or otherwise not attending to what's happening, that student can be called on or the student next to the offender can be asked to respond.
- 7) Participation can be used to balance who's contributing in class and how much—in the vast majority of cases, it is the teacher who selects the participant. If teachers will wait patiently and not always select the same student, if they look expectantly to others and confirm verbally and nonverbally the value of hearing from different people, they can influence who speaks and how much. Participation even helps teachers control how much they talk.
- 8) Participation encourages dialogue among and between students—Students can be asked to comment on what another student has said. A question can be asked and students can be invited to discuss possible answers with each other before the public discussion.
- 9) Participation can be used to develop important speaking skills—in many professional contexts, people need to be able to speak up in a group. They may need to offer information, ask questions, or argue for a different solution. People don't learn to speak up in a group by reading about how to do it—it's one of those skills best developed with practice. And it's one of those skills that develops better with feedback. If participation is being used to teach students this public communication skill, they will need feedback.
- 10) Participation gives students the opportunity to practice using the language of the discipline—Most faculty have spoken astronomy, accounting, psychology, gerontology, political science, whatever the field for years, and they've forgotten how much of the language is new, different, and difficult for students. Participation gives students the chance to practice using a different vocabulary.

## 8. What Students Should Do for Classroom Participation

- Don't be shy If you are a naturally shy person, building a participation plan will be even more important.

- Don't give up! Over time you may find it easier to speak in class. Finally, remember that your instructors and peers are there to support and help you.

### 8.1 Class Participation Starts before You even Get to Class

To participate in class, you need to have a good understanding of the material you have covered up to that point. Review your study notes from the previous class or classes and make a list of concepts, ideas and facts to ask.

### 8.2 Go to Class!

Ok, this may sound really basic but it's important. You can't participate if you're not there. Whether being there means physically attending class or participating in an online chat or discussion board, you need to be there when it happens.

### 8.3 What Does This Actually Mean?

Arriving a few minutes late can throw off your ability to participate for the entire class and will probably be disruptive. Arrive early and take a few moments to prepare yourself before the class begins. This is a good time for you to look over your notes and questions and refresh your mind about what you covered in the last class and what today's class will cover.

### 8.4 Ask a Question

There are several ways you can participate in a class discussion. One way is to ask a question relevant to the material covered in class or in the readings. Asking a well thought out question lets the teacher know that you are engaged with the material. And often your classmates will be happy you asked a question they were thinking of too.

### 8.5 Give and Take

You may be asked to participate in a group activity in class. Be ready to work with others in a small group. Listen and interact with peers with respect for their views. Try not to sit silent or be the loudest. Be ready to give and take. Your teacher may ask for students to take part in a role play or activity. Do your best to participate fully. Becoming more involved in the activity will increase your interest and your learning.

## 9. Conclusion

The perfect class discussion" as one in which all students were participating, learning, and listening to others' ideas, comments, and questions, is important for the success of the class. Logistical issues, student confidence, and the instructor all have an important effect on student participation. A supportive classroom climate is critical to higher levels of participation. The more the students participate, the more they acquire, and the more they engage in higher levels of thinking, including interpretation, analysis, and synthesis. Class size has its effect on participation, students being more willing to participate in big size classes and less likely to be able to "hide" in

smaller classes than larger classes; large class size tends to ease communication. Students even reported confidence as the most motivating factor for their participation in several studies, by the fact that students who were supposed to talk about the topic with another student or to complete it as a homework assignment before discussing it with the entire class were more likely to participate. Students who are young, inexperienced, and immature are less likely to participate in class especially if they are surrounded by others who are more experienced.

Students' assertiveness and/or responsiveness also appear to determine whether or not they will participate in class. Those who are high in both traits are more likely to communicate for functional reasons, and those who are more assertive are more likely to communicate for excuse-making reasons. Students are less likely to participate if their instructors do not pay attention to them, make fun of them, put them down, or are very serious of them. Alternatively, a climate where students and the teacher respect each other, where the students respect one another, and where the teacher cares about the students, is conducive to class participation, as it is this type of classroom climate that works to rise student confidence and relaxation in participation. And finally, male students participate more than females, and noted that this may be because they have had more practice in doing so throughout their education. Concerning sex differences in teachers, female instructors were found to create an environment in which students would participate more.

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