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students I used, anonymously pulled by the university, reported dissatisfaction with the cooperative learning-based English courses. Positive comments from students in anonymous end-of-term course evaluation questionnaires have focused most especially on their satisfaction regarding relationships with other students in the same class, their appreciation of the many chances to exchange opinions with peers in class, the active nature of learning, and, in English courses, increased confidence in their English abilities over the course of a term. Other comments focus on knowledge gained, respect of students in the class, and appreciating the variety of classroom activities. I use many of the structures outlined in Kagan's publications and demonstrated in workshops lead by Kagan and his colleagues. I have also adapted them, and developed my own structures for language and other courses in Japan (Nakagawa, 1999(a), 1999(b), 2000, & 2001). Many of the structures I use were inspired by, or improved upon, following exposure to Kagan training materials and the work of other cooperative learning specialists. Other than using the structures themselves, I believe that giving students choices about projects (in other words, adopting a student-centered curriculum), and changing peer groups every class meeting so students work with all the other students in the class throughout the term, are important factors that lead to student satisfaction. Many students specifically note that they like, for example, the grouping procedure, done by randomly shuffling name cards which are placed on desks to indicate where students should sit, with pairs and groups usually subsequently formed based on learners' physical proximity to each other. Structures are indexed in Kagan (1994), and Kagan and Kagan (1998), according to which skills and abilities will be utilized by learners who complete the activity. The indexing makes it very easy to locate a structure for a particular purpose. Compared to other cooperative learning approaches or manuals requiring a significant investment of teacher time, the approach in these two training/teacher resource manuals is practical, flexible (steps can be altered and content can be determined by the teacher or students), and "teacher friendly" (structures are easy to find and follow). [p. 6] In addition to Dr. Kagan's approach, I have also studied and learned from reading about and observing the approaches of cooperative learning specialists such as Aronson (Aronson & Patnoe, 1997), the Sharans (Sharan & Sharan, 1992), the Johnson siblings (Johnson, Johnson and Holubec, 1993 & 1998; Johnson & Johnson, 1981 & 1991; Johnson, Johnson & Smith, 1991) and the Buzz Learning approach practiced by some specialists in Japan (Sugie, 1995 & 1999). The approach advocated by the Johnsons emphasizes social skills training of students, and includes a step by step approach to peer-mediate conflict resolution. It also offers an alternative to traditional (in the USA) competitive debate. Rather than ending in a lose-win, the Johnsons' "Academic Controversy" approach requires the conclusion of the learners' controversy ("debate") to be a composite view jointly constructed by team members that finds strengths on both sides (versus identifying a winning/losing team). Aronson is famous for the Jigsaw Approach to cooperative learning, where each student initially has part of the information needed to complete a task, and subsequent cooperation at the team level is essential for completion of the task. The Sharans of Israel are best known for a collaborative project design approach known as Group Investigation. Other major approaches include those of Slavin (John Hopkins University), Cohen (Stanford University) and, in Japan, Buzz Learning, practiced by Sugie (Chukyo University), and others. A useful introduction to many of the various cooperative learning methods may be found in Sharan, (1994). Potential difficulties related to cooperative learning in Japan CL may not be appropriate for the teacher who wishes to be the center of attention in the class, since CL makes students the focus of attention more than the teacher, especially if used in conjunction with a student-centered syllabus or curriculum. Although CL can be combined with other approaches, including teacher-centered and materials-centered approaches, it is essentially a student-centered approach. CL takes some time for teachers to learn, although Kagan's approach attempts to simplify the process by providing teachers with more or less ready-made structures for a variety of pedagogical purposes. Teachers who wish to focus only on academic results, rather than academic results as well as the psychological health of students and positive interpersonal relationships, may be uninterested in the approach. It is important to note, however, that CL can also be used to help students master specified material (e.g. for entrance tests), if that is an aim. For example, students can work collaboratively in CL groups to master grammatical points that they will, subsequently, be tested on. In this case the goal would be for everyone in the group to master the material. If the teacher's goal is not for all students to master the material, there would be no incentive to use CL. A prominent Japanese educational psychologist (Sugie, 1995) explains that CL is not widely known or practiced in Japan. Although he cites studies showing its positive effects for Japanese learners, he believes that many Japanese teachers do not have the time or opportunity to study it, and that Japanese educational bureaucracies, concerned primarily with keeping costs down and increasing efficiency, create an inhospitable environment for it. He also notes that it may be difficult to inspire Japanese teachers or teachers in training, and believes that many teachers may tend to teach in the manner they were taught, which was likely not CL (see Sugie, 1995; 1999). Conclusion It was a great pleasure to be able to attend Kagan's practical and informative lecture/demonstrations of the structural approach to cooperative learning in Japan this year. His structures can be used for student mastery of material, active learning, equality, critical thinking, positive human relationships, and for raising student self-esteem and respect for others. As a student workshop attendee commented, however, a teacher needs to be trained in the approach in order to use it. While it may take time before the teacher truly excels at CL, it may be possible to make some immediate pedagogical improvements by quickly learning a few cooperative learning structures as outlined by Kagan and his associates. My own view is that mastering the use of structures, learning how to teach social skills and conflict resolution strategies, and understanding the theory of CL, are all useful. Over time, the teacher may perfect her implementation of CL and be able to innovate CL pedagogy on her own adaptable to her particular classroom. Although admittedly CL takes time to learn and perfect, one of the advantages to Dr. Kagan's structural approach which offers 200 nearly ready-made classroom activities for the teacher is that the teacher can learn to use a few simple structures even before having perfected her or his knowledge of the theory (as opposed to first learning the theory and then trying to figure out ways to apply the theory). At the same time, this author's belief is that a long-term commitment to increasing one's expertise in CL is a worthwhile endeavor. If Japanese or Japan-based in-service teachers cannot find the time for teacher development in order to learn CL, it may be best to introduce teachers in training to CL while they are still at the pre-service level. Among native English speaking/non-Japanese teachers in Japan, CL is not widely known or well understood, although it has been the theme of several articles published in the journals of the Japan Association for Language Teaching (JALT) (Kluge et al. 1999(a), 1999; Poel, et al. 1994). Increased awareness about this useful pedagogical approach could lead to further beneficial research and study in the Japan context. Japan-based teachers interested in further study of CL may wish to contact the Japan Association for the Study of Cooperation in Education via its website www.jasce.jp/ or contact the author of this paper, a JASCE board member, via jane@aeucc.aichi-edu.ac.jp. Further information about Dr. Kagan's approach can be found at www.KaganOnline.com. Although I believe all cooperative learning approaches have merits and are worthy of study, I believe a particular benefit of Kagan's structural approach to CL is its practicality and teacher-friendliness, as well as its commitment to equal participation in the classroom found in ready-made, yet flexible and adaptable, classroom structures. [p. 7] References Aronson, E. & Patnoe, S. (1997). The jigsaw classroom: building cooperation in the Classroom. New York: Longman. Campbell, C. & Kryszewka, H. (1992). Learner-based teaching. Oxford: Oxford University Press. Cranton, P. (1994). Understanding and promoting transformative learning. Hoboken: Jossey Bass. Ciaramicoli, A. P. & Ketcham, K. (2000). The power of empathy. New York: Plume. Cohen, E. G., Lotan, L. & Catanzarite, L. (1990). Treating status problems in the cooperative classroom. In S. Sharan, (Ed.), Cooperative learning: theory and research. pp. 203-230. Westport: Praeger. Deutsch, M. (1973). 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(1995). Cooperative learning in Japan. International journal of educational research, 23 (3), 213-225. Sugie, S. (1999). Cooperative learning in Japan: history and present situation of research and implementation. In Kluge, D., McGuire, S., Johnson, D., and Johnson, R. (eds.) JALT applied materials: Cooperative learning. Tokyo: JALT. 179-188. Woodward, T. (2002). Stimulus-based teaching. English teaching professional, 25, 17-18. Dr. Spencer Kagan To cite this article: Kagan, S. Cooperative Learning Structures. San Clemente, CA: Kagan Publishing. Kagan Online Magazine, Issue #53. www.KaganOnline.com How we structure the interaction among students impacts dramatically on achievement and acquisition of social skills. Simply telling students to "Turn and Talk" increases the achievement gap; having students do a "Timed Pair Share" equalizes participation and reduces the gap. To a remarkable extent, the situations we are in determine our behavior. Applying this principle, we can structure the interaction of students in ways that improve a range of educational outcomes. How we structure the interaction among students determines how much they will achieve, the size of the achievement gap, how much they will like school and learning, and how often they engage in positive v. disruptive behaviors. Situations Determine Behavior There is a great deal of psychological research demonstrating that situations determine behavior. Two classic experiments demonstrated that given specific situational variables, good people will perform terrible things—administer lethal shocks, invent and carry out sadistic punishments. The power of situational variables to control behavior also can work for good. Given the right situations in a classroom, we can promote cooperation, and achievement. The easiest way to grasp the power of situations to determine behavior is a simple thought experiment. Thought Experiment Situation 1: Imagine a classroom of students. Imagine further the teacher stands before the class with a basket of valuable coins. The teacher announces to the class he/she will start a 3-minute timer and then toss all the coins out into the classroom. The teacher then says any coin a student collects during the 3 minutes is theirs to keep. The teacher then tosses the coins out into the classroom. What would the behavior of the students look like? Almost certainly there would be some grabbing and even pushing in the scramble to compete for the coins. Students would feel themselves to be in competition. Situation 2: Now imagine the same teacher, the same students, the same basket of coins, and the same 3-minute timer, but with one change. The teacher announces that at the end of the 3 minutes, all the coins that are placed back in the basket will be divided equally among the students for them to keep. What would the behavior of the students look like now? Almost certainly the students would gather coins and run to put them in the basket. Quite probably students would cooperate to maximize their reward. They might help each other scoop up the coins or hand their coins to others to put in the basket. Students would feel themselves on the same side, part of a cooperative group. The same students, with the same amount of rewards and the same time limit, would be either very competitive or very cooperative, depending on the situation. How we structure the situations in which we place our students, to a large extent, determines their behavior. In our work applying situationism to the classroom, we have identified three basic types of situations: Traditional, Group Work, and Kagan Structures. Which one of these situations we choose to implement in our classroom has a dramatically different impact on student interactions and learning. Three Basic Classroom Structures, A, B, & C A. Traditional. I have now given workshops and keynotes in 37 countries. In each country I have visited a number of classrooms. In all countries I have visited, the most common way of structuring the interaction among students is what I call the traditional approach. The traditional approach takes two basic forms, one for responding to teacher questions and the other for worksheet practice. For responding to teacher questions, the traditional teacher asks a question of the class and those students who want to respond, raise their hands to be called upon. This traditional Hand Raising Q-A structure results in the high achievers doing most or even all of the responding while the lowest achievers engage in mind-wandering. The result: an increased achievement gap. For worksheet practice, following direct instruction the traditional teacher often has students work alone on worksheets. This, too, results in an increased achievement gap because the high achievers get good practice while the low achievers may practice wrong, mind-wander, or avoid a failure experience by not performing, rationalizing by saying something like, "This worksheet is dumb." B. Group Work. The second way of structuring interaction in a classroom is what I call group work. To have students respond to teacher questions, the teacher may have students interact in pairs, saying, "Turn and Talk." Or the teacher might have students interact in small groups, saying, "Discuss it in your groups." These ways of structuring interaction also widen the achievement gap because the higher achievers in each pair or group do most or even all the talking while the lower achievers may engage in mind-wandering. For worksheet practice, the group work teacher tells students to do a project or worksheet as a group. "Work together, cooperate." This, too, widens the achievement gap as the high achievers take over. Almost everyone has been part of a group in which some did the work and others took a free ride. C. Kagan Structures. For years we have worked to carefully design ways of structuring interaction so there is equal and frequent participation of all students. We call these simple instructional strategies Kagan Structures. For example, for oral responding, rather than a Turn and Talk, the teacher might have students do a RallyRobin or a Timed Pair Share. In a RallyRobin, students in pairs take turns speaking, generating an oral list. For example, young students might take turns naming colors; older students might take turns naming prime numbers. In a Timed Pair Share, each student has a predetermined amount of time to share while his/her partner listens. For example, young students might spend 30 seconds each describing what they think will happen next in the story; older students might spend a minute each sharing their opinion on which of the ten amendments in the Bill of Rights they think is most important and why. Situations impact behavior, for good or bad. Different instructional strategies create different situations. Traditional classroom situations (calling on those students who raise their hands; having students work alone on worksheets) increase the achievement gap. Kagan Structures are alternative situations that increase equality of and amount student engagement, improving achievement, as well as social skills and behaviors. There are many advantages of RallyRobin and Timed Pair Share compared to the traditional Hand Raising Q-A: In the same amount of time the traditional teacher can ask and respond to the answers of two or three students each giving one response, with a RallyRobin every student in the class has given a number of responses. With Hand Raising Q-A, it would take a full class period to have every student in the class share their ideas for a minute because the teacher talks twice for every time a student talks, first asking the question, and then responding to the answer. For every student to share for a minute using Timed Pair Share, it takes just a little over two minutes. In 2 minutes, Timed Pair Share produces as much oral language production per student as the traditional teacher produces in an hour! When we use Timed Pair Share or RallyRobin, at any moment, half the class is verbalizing their ideas and every student is called upon to respond. No one can choose to hide. The participation is very unequal in the traditional and group work approaches; we call most on those who least need the practice and call least on those who most need the practice. In contrast, the Kagan Structures are carefully designed to equalize participation, either by equal time or equal number of turns. Sage-N-Scribe For worksheet work, rather than working alone, the teacher might have students do a Sage-N-Scribe. In Sage-N-Scribe, students work in pairs, with one worksheet. For the first problem, the Sage tells the Scribe how to solve the problem and the Scribe records the work. The Scribe provides praise, and, if necessary, coaching. Following each problem, students switch roles. Some of the many advantages of Sage-N-Scribe are that students get peer support, encouragement, and coaching. They receive immediate feedback and correction, if necessary. Students can't do a whole worksheet practicing wrong. In the traditional classroom, they get feedback only after the teacher has had time to correct the papers. An additional advantage is the amount of feedback: With Sage-N-Scribe, students get feedback following every problem, not following every worksheet. Timed Pair Share, RallyRobin, and Sage-N-Scribe are but three of over 200 Kagan Structures we have created. Different structures have different functions. We train teachers in structures for interpersonal functions (Classbuilding, Teambuilding, Social Skills, Communication Skills, and Decision Making) and academic functions (Knowledge Building, Procedural Learning, Processing Information, Thinking Skills, and Presenting Information). Results Using Kagan Structures There are numerous controlled research studies documenting positive results of using Kagan Structures. The average effect size on achievement using Kagan Structures is .92, indicating a percentile gain of 31.9. A student scoring at the 50th percentile in a traditional classroom would be scoring at the 82nd percentile had the teacher used Kagan Structures! Research indicates implementing Kagan Structures results in dramatic reductions in discipline referrals and corresponding increases in positive behaviors such as helping, turning in lost items, preventing fights, and picking up trash without being asked. Why? When Kagan Structures are used regularly in classrooms, cooperation becomes the norm in the school. Just like the students who work together to gather the coins, students experiencing Kagan Structures feel themselves to be on the same side. Conclusion Applied situationism gives us leverage. With relatively little change in how we structure the interaction among students, we have a huge positive impact on a number of key educational outcomes, including academic achievement, social development, character development, race relations, and reduction of disruptive behaviors. Kagan S., 2013. 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