Hand Raised Detection

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Research suggests the effects of hand-raising are partially dependent upon the classroom structure and the ways in which students use hand-raising.

> The behavior of hand-raising is an observable indicator of students' behavioral engagement. By focusing on students who raise their hands, the teacher can identify the students who want to be actively involved in classroom discourse regardless of whether they actually get the chance to speak.

Arguments For Using Hand-Raising Strategies

- Helps maintain order and fairness by allowing teachers to call on students in an orderly fashion, ensuring everyone has a chance to participate.
- It encourages active participation and engagement, allowing students to demonstrate understanding, ask questions, and contribute respectfully.
- Teaches important social skills like patience, listening, and waiting for one's turn to speak.

Arguments Against Using Hand-Raising Strategies

- Confident, English proficient students are most likely to raise their hands, while others shy away from hand raising.
- Group discussions that do not require students to raise their hands to be called on may lead to increased student participation and a better learning process.

The purpose of this document is to support basic understanding and reflection related to the corresponding report.

When reflecting on the effectiveness of hand raising practices, consider the following questions:

> NOTE: Clicking on the bars in Sibme AI Report chart will bring the video to the moment when raised hands were detected.

1. On average, how many students raised their hand when given the opportunity?
2. How often were pauses provided to allow students to raise their hands and participate in the discussion?
3. Was there diversity in the range of students called on or was there a tendency to only call on certain students?
4. Review which students raised their hands throughout the lesson. Who raised their hands most frequently? The least or not at all?
5. Were there students who seemed eager to participate but didn't get the chance to raise their hands? Why might this have happened?

Strategies to Enhance Hand Raising Practices and Encourage More Participation:

- Use a Partner First or Turn and Talk strategy before having students raise their hand to offer a response to a question or prompt. This not only creates accountability for all students to participate, but it can build confidence, expressive language, increase comprehension, and enrich student responses.
- Instead of traditional hand-raising, try implementing alternative techniques to encourage participation. For example, use hand signals or non-verbal cues that allow students to indicate their readiness to contribute without interrupting the flow of discussion. This can help shy or hesitant students feel more comfortable participating.

Remember that while AI can provide valuable insights and support, it should not replace the expertise and judgment of educators. The AI report should be viewed as a tool to augment and inform instructional decision-making rather than as a substitute for human analysis and understanding.

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