

Ten Steps to Promote a Stronger Emphasis on Student Learning

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Abstract

Inspired by the AAHE Assessment Forum's Principles for good practice for assessing students' learning, the author has generated Ten Steps (1992) to Promote a Stronger Emphasis on Student Learning in a Hydrology–Fluid Mechanics Course. Student-Learning must not be focused only about making the connections initially. Instead it should concentrate more about maintaining those connections in the long run. Student learning is fundamentally about a strong bond between the academic establishment and the student citizens of the entire community. Student-Learning is enhanced by the environment. It should take place in the context of a compelling situation that balances curiosity, challenge and opportunity. Student-Learning should have an active search for meaning by the learner – constructing knowledge rather than passively delivering it or receiving it. In other words one should create a Concept Mapping Model instead of a Structured Content Model. Student-Learning is developmental. In other words, it is a cumulative process involving the whole person, who is capable of integrating the new with the old. The settings, the surroundings, the influences of others contribute to successful accomplishments. Student-Learning should be viewed as an effort promoted by individuals who are intrinsically tied to others as social beings, actually interacting as collaborators. Student-Learning is strongly influenced by the educational climate in which learning achievements takes place. Student-Learning requires Action, Communication, Ownership, Reflection and Nurture (ACORN) as suggested by Hawkins and Winter (1997). Student-Learning in reality aims at an educational experience that takes place informally and incidentally, beyond explicit teaching in the lecture hall. Student-Learning is grounded in particular contexts and individual experiences, requiring effort to transfer specific knowledge and skills to other citizens. Student-Learning involves the ability of individuals not only to monitor their own learning, but also be able to enhance learning through collaboration and cooperation. References: Hawkins, P., & Winter, J. (1997). *Mastering change: Learning the lessons of the enterprise in higher education initiative*. London: Department for Education and Employment.

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Inspired by the AAHE Assessment Forum's *Principles for good practice for assessing students' learning*, the author has generated Ten Steps (1992) to Promote a Stronger Emphasis on Student Learning in a Hydrology–Fluid Mechanics Course.

1. Student-Learning must not be focused only about *making* the connections initially. Instead it should concentrate more about *maintaining* those connections in the long run. Student learning is fundamentally about a strong bond between the academic establishment and the student citizens of the entire community.
2. Student-Learning is enhanced by the environment. It should *take place* in the context of *a compelling situation* that balances curiosity, challenge and opportunity. A dynamic environment and an interactive dialog is of great help in this area.
3. Student-Learning should have an *active search for meaning* by the learner -- constructing knowledge rather than passively delivering it or receiving it. In other words one should create a *Concept Mapping Model* instead of a *Structured Content Model*.
4. Student-Learning is *developmental*. In other words, it is a cumulative process *involving the whole person*, who is capable of integrating the new with the old. The settings, the surroundings, the influences of others contribute to successful accomplishments.
5. Student-Learning should be viewed as an effort promoted by *individuals* who are intrinsically *tied to others as social beings*, actually interacting as collaborators.
6. Student-Learning is strongly influenced by the *educational climate* in which learning achievements takes place.
7. Student-Learning requires Action, Communication, Ownership, Reflection and Nurture (ACORN) as suggested by Hawkins and Winter (1997).
8. Student-Learning in reality aims at an educational experience that *takes place informally and incidentally*, beyond explicit teaching in the lecture hall.
9. Student-Learning is *grounded in particular contexts and individual experiences*, requiring effort to transfer specific knowledge and skills to other citizens.
10. Student-Learning involves *the ability of individuals not only to monitor their own learning, but also* be able to enhance learning through collaboration and cooperation.

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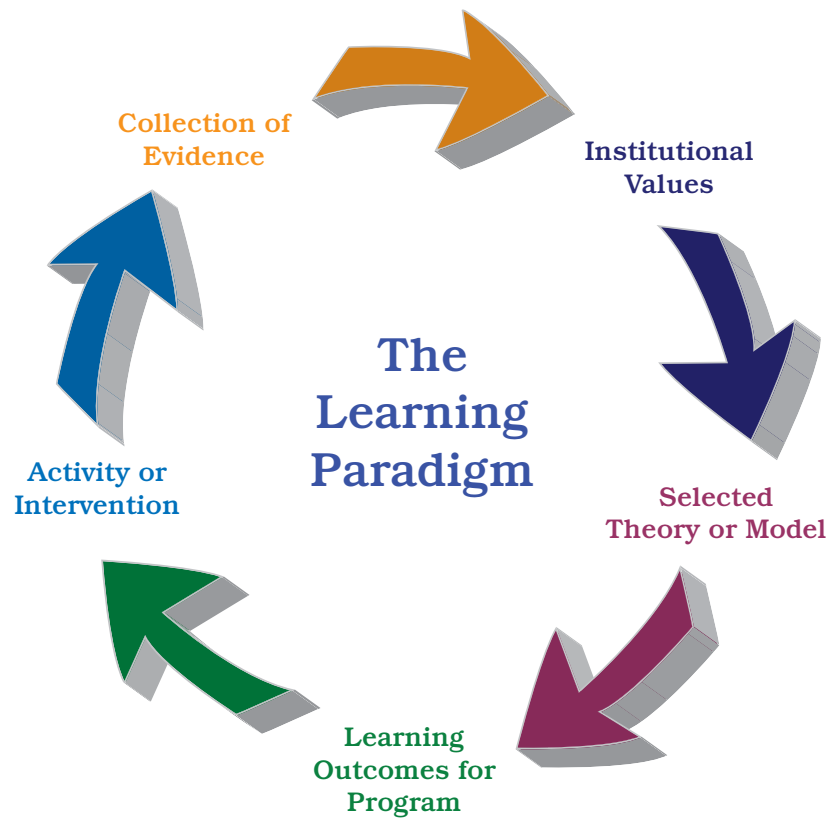
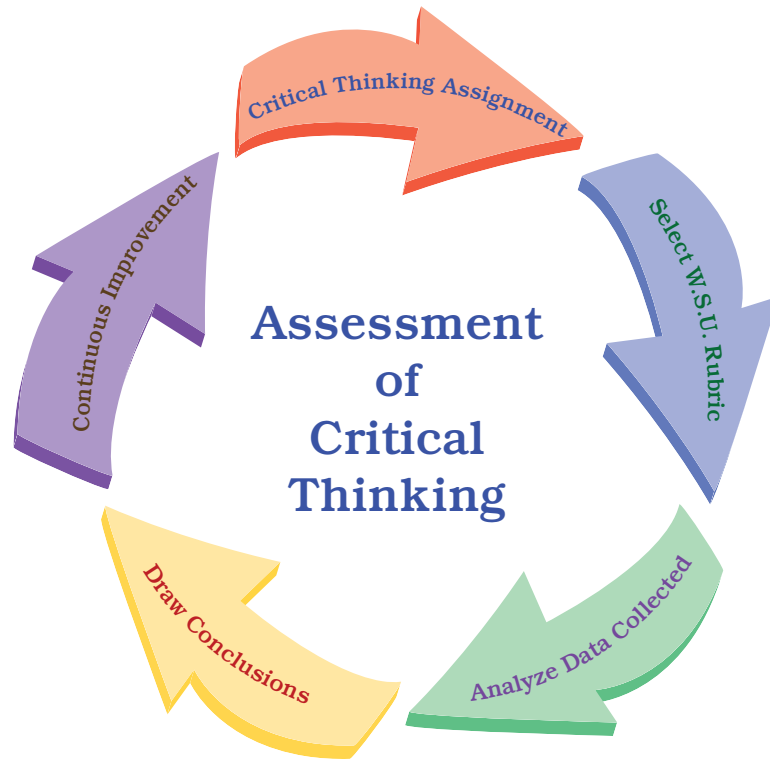
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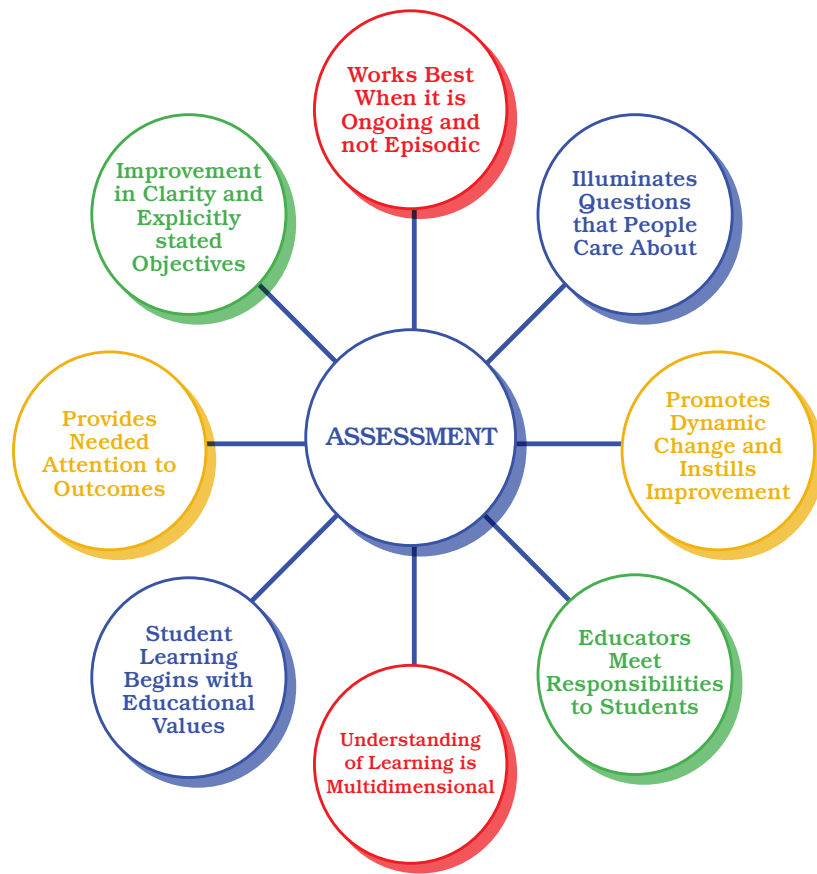
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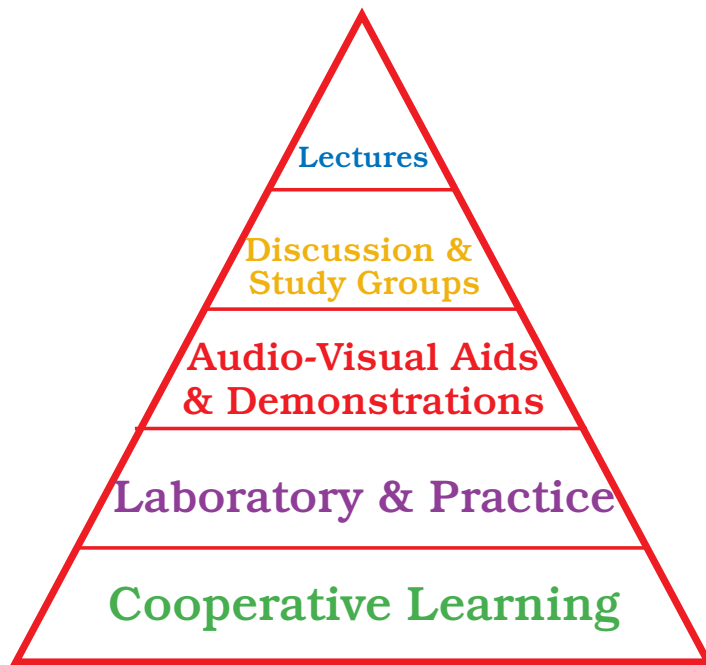
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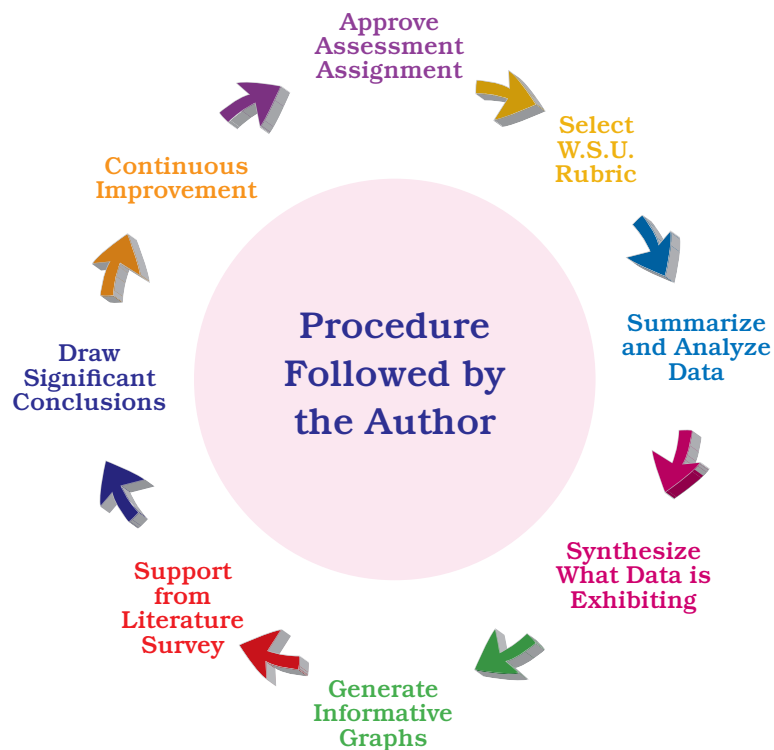
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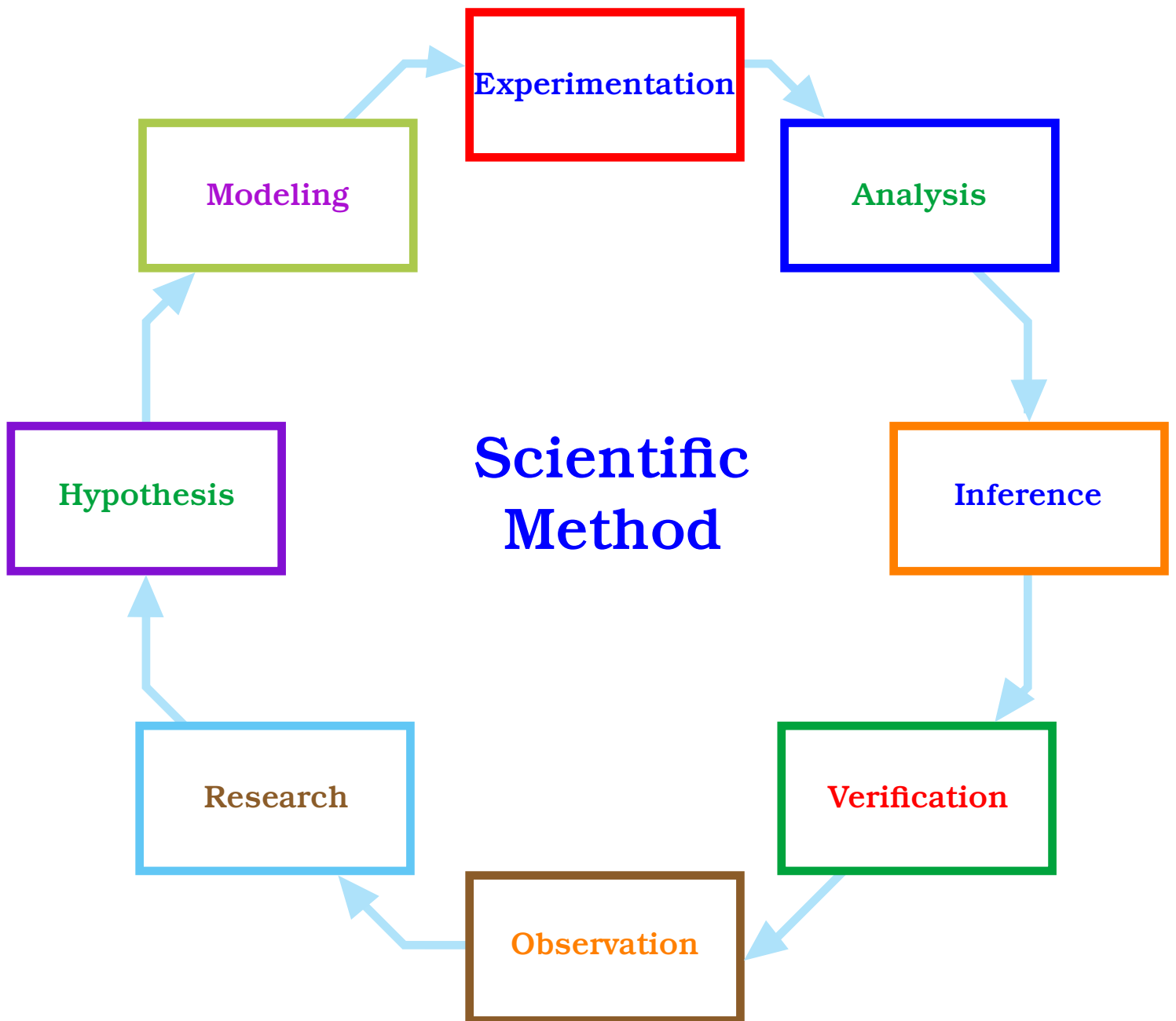


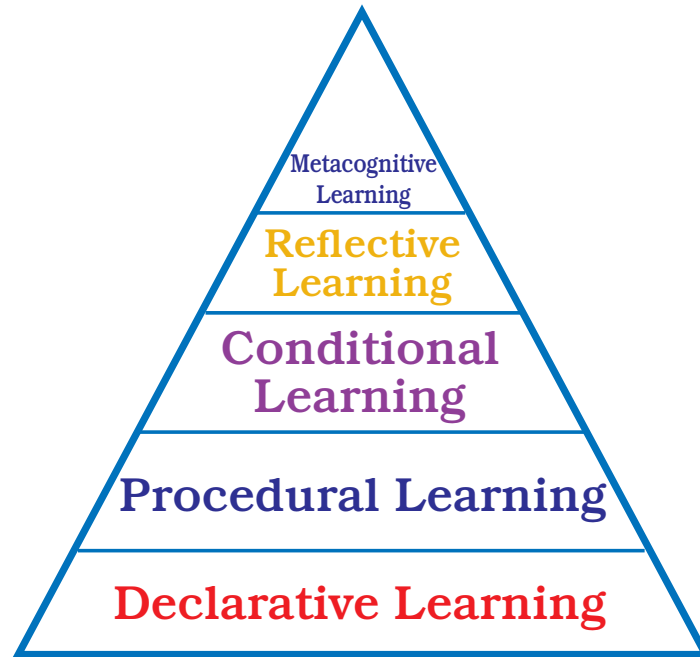




LEARNING PYRAMID

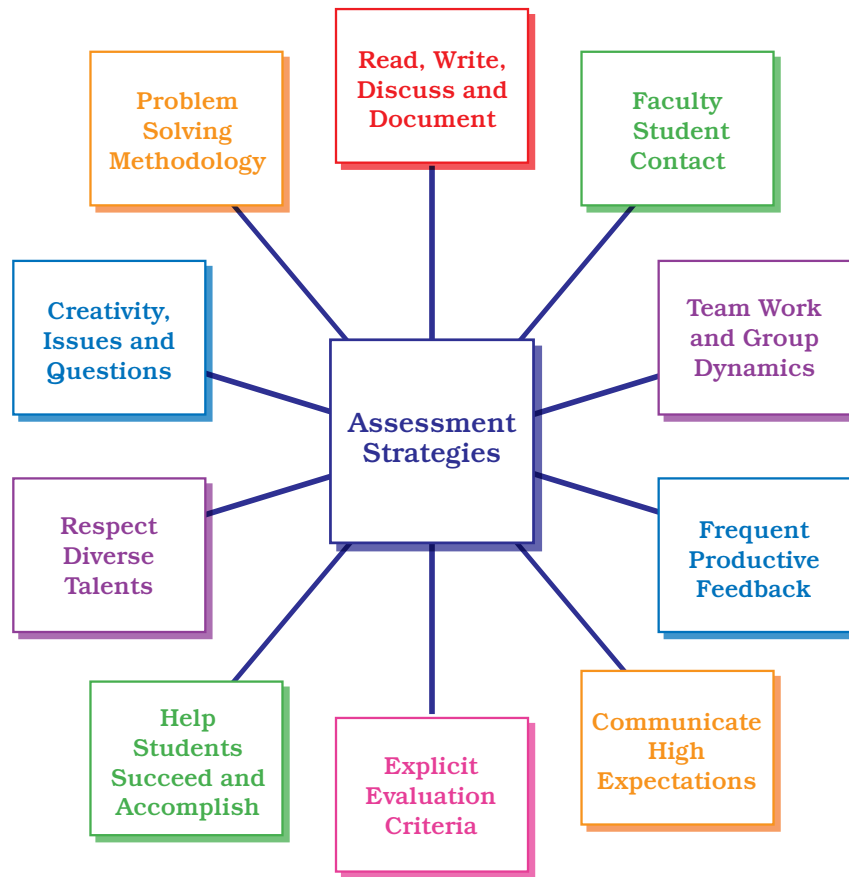






ANGELO'S PYRAMID





Ten Assessment Strategies Suggested by Research

- 1 Have employees write, discuss, document and communicate their creative ideas.
- 2 Utilize proven rubrics to make standards and evaluation criteria explicitly clear.
- 3 Get employees working in groups, on substantive tasks, in and out of corporate environment.
- 4 Provide prompt and productive feedback frequently to the employees about their progress and accomplishments.
- 5 Establish and communicate high expectations, both for the supervisors and for the employees.
- 6 Provide opportunities and help employees to achieve those expectations and criteria.
- 7 Focus on helping the employees successfully attain their goals and objectives, with enthusiasm.
- 8 Promote Critical Thinking and support creativity. Respect diversified approaches and admire individual's talents.
- 9 Appreciate multitude ways of reason, logic and pave a path for problem solving methodologies.
- 10 Encourage supervisor-employee interaction, in and out of the industrial establishment circles.