



Goals for Teachers

- Knowledge of science, mathematics, and technology and their interconnections
- Knowledge of appropriate cognitive steps toward science literacy at various grades
- Knowledge of research findings on students' ideas in science and the ability to probe for student understanding and misunderstanding
- Knowledge of alternative curriculum materials and their trade-offs and the ability to select resources and plan activities to address specific learning goals
- Knowledge of a variety of assessment possibilities and their trade-offs and the ability to use them to promote and assess science literacy
- Special knowledge of subgroups and the ability to employ strategies to teach ALL students
- Ability to reflect on their practices and participate in collegial discussions about teaching and learning

draft *Teacher Education Report* (MSU, 1994)