

Alliance Mission Statements

Biology: The mission of the Biology Alliance is to meet the needs of local educators regarding P-12 biology education by providing professional development activities, opportunities to exchange ideas, and appropriate resources for elementary, middle and high school. We seek to encourage learning in the life sciences that is inquiry-based, applicable to real-world happenings, and consistent with the Kentucky Core Content.

Chemistry: The mission of the Northern Kentucky Chemistry Alliance is to enhance chemical education at all educational levels by providing a forum for discussion of related issues, encouraging members to share ideas and best practices with other teachers of chemistry, and by sponsoring educational workshops for teachers.

Computer Science: The mission of the Computer Science Alliance is to further computer science education at the high school and middle school levels. We do this by providing seminars that keep teachers abreast of emerging technologies relevant to their computer science curricula, as well as new content in the computer science advanced placement exams. We also provide a forum for computer science teachers to network with each other and with university faculty.

Earth/Space: The mission of the Earth/Space Alliance is to meet the needs of local educators regarding P-12 earth/space science education by providing professional development activities, opportunities to exchange ideas, and appropriate resources for elementary, middle and high school. We seek to encourage learning in the physical sciences that is inquiry-based, applicable to real-world happenings, and consistent with the Kentucky Core Content.

Elementary Math/Science: The mission of the Elementary Math/Science Alliance is to excite area elementary teachers and their students about science and math by providing activities focusing on “best practices”. Best practices will include: hands-on activities connected to the Kentucky Core Content; real world applications; higher level thinking strategies; and inquiry based instruction.

Environmental Science and Education: The mission of the Environmental Science and Education Alliance is to provide opportunities to teachers that will expand their knowledge and resources for teaching environmental science. Through workshops, fieldtrips and activities, our alliance strives to help teachers raise awareness regarding the environment and the issues therein. The Environmental Science and Education Alliance encourages teachers and students to develop a positive attitude toward the environment which will help them make environmentally conscious decisions in the future.

Mathematics: The mission of the Math Alliance is to encourage and maintain interest in the teaching of mathematics and to promote professional growth and fellowship among its members. We are supporting affiliates of NCTM and KCTM and encourage our members to join these organizations as well.

Middle School Science: The mission of the Middle School Science Alliance is to provide area middle school teachers a support network and opportunities for professional development; this will be accomplished by expanding knowledge, sharing teaching strategies and resources, and exploring new ideas targeted to the specific developmental level of middle school students.

Physics: The mission of the Northern Kentucky Physics Alliance (NKPTA) is to promote physics and the teaching of physics in the Northern Kentucky region. Membership is open to anyone interested in teaching physics at any level, but our focus is primarily teaching physics at the high school level. We have members who teach college, high school, and middle school physics or physical science. The alliance conducts meetings and workshops on a wide range of physics related topics. These are determined by the membership and the goal is to have our members become better informed physics teachers by sharing their ideas with each other. The alliance also maintains an email list that allows members to discuss topics related to physics teaching by email.