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**Kristin Pfabe\*** (kpfabe@nebrwesleyan.edu) and **Michelle Reeb Homp** (mhomp@lps.org). *A Course in Number Theory and Cryptology for Middle Level Teachers*. Preliminary report.

Despite its relevance to middle level mathematics curricula, many middle level teachers have limited formal exposure to concepts in Number Theory. We describe a course designed for middle level teachers which addresses basic number theory results needed to understand RSA cryptography and makes connections to middle level mathematics. Teachers benefit from a greater understanding of the integers and an appreciation of a modern application of a centuries-old branch of mathematics. (Received August 30, 2005)