Integrated STEM Curriculum Mapping Sample

Secondary Education (Grades 9-10)

Unit/Theme	STEM Subject(s)	Key Concepts	Learning Activities	Assessment
Renewable Energy	Science, Technology, Engineering	Energy sources, sustainability, circuits	Solar car model building, energy conversion investigations	Project report, model demonstration
Mathematics in Architecture	Math, Engineering, Art	Geometry, scale, symmetry, structure design	Bridge design challenge, floor plan analysis	Design portfolio, presentation
Data & The Environment	Math, Science, Technology	Statistics, data collection, environmental quality	Local surveys, data visualization using spreadsheets	Data analysis report
Coding for Solutions	Technology, Math	Programming logic, algorithms, mathematical models	Developing apps or simulations to solve real-world problems	Project demonstration, code review

STEM Integration Highlights

- Collaborative interdisciplinary projects
- Real-world problem solving as central focus
- Opportunities for creativity and critical thinking
- Assessment through products and process reflection