

Science Research Methods Curriculum Map: 10th-12th Grade

Timeline	Content	Skills	Concepts/Themes
September/October	10 - Selection of potential topics using lay articles 11 - Construction of year-long vision 12 - Writing and editing of Intel paper	Time Management Organizational skills Review of current research in chosen area Project Planning Experiment Design Technical writing Communication/Presentation skills	Scientific Method Experimental Process Test of Hypothesis
	10 - Narrow topic 11 - Intensive reading of journal articles 12 - Refinement of Intel paper; completion of first full draft	Time Management Organizational skills Review of current research in chosen area Project Planning Experiment Design Technical writing Communication/Presentation skills	Scientific Method Experimental Process Test of Hypothesis

Science Research Methods Curriculum Map: 10th-12th Grade

Timeline	Content	Skills	Concept/Themes
January/February	10 - Selection of topic for study 11 - Dissection paper of pertinent journal article 12 - Final copy of paper submitted to Intel	Time Management Organizational skills Review of current research in chosen area Project Planning Experiment Design Technical writing Communication/Presentation skills	Scientific Method Experimental Process Test of Hypothesis
March/April	10 - Begin mentor search 11 - Presentation of dissection paper 12 - Begin work on formal presentation	Time Management Organizational skills Review of current research in chosen area Project Planning Experiment Design Technical writing Communication/Presentation skills	Scientific Method Experimental Process Test of Hypothesis

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Timeline	Content	Skills	Concept/Themes
May/June	10 - Continue mentor search/begin review article 11 - Finalize hypothesis and objectives for experiment 12 - Finalize formal presentation for JSHS	Time Management Organizational skills Review of current research in chosen area Project Planning Experiment Design Technical writing Communication/Presentation skills	Scientific Method Experimental Process Test of Hypothesis

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