

Intermediate Technology Projects | Scope & Sequence

Intermediate technology projects are for middle or high school students. They develop proficiency in using technology.

Activities emphasize critical, creative, and computational thinking. Students design publications, analyze data, build web pages, program games, and more!

	COMPUTER APPLICATIONS DIGITAL LITERACY				COMPUTER SCIENCE
Grades 6/7	TechnoNewsletter Publish a fan club newsletter. Write an informative article, construct a word search, and express an opinion. Format pages to lay out content attractively. <i>Word or Docs</i> language arts; word processing	TechnoRestaurateur Launch a business venture. Plan a restaurant, create a logo, conduct a survey, generate funds, build a floor plan, manage finances, and more! <i>Excel/PowerPoint/Word or Sheets/Slides/Docs/ Drawings/Forms</i> entrepreneurship; integrated unit	TechnoTravel Promote a weekend getaway for tourists. Research the trip. Customize a slide master to create a unique marketing tool that persuades visitors to vacation. <i>Excel/PowerPoint/Word or Sheets/Slides/Docs</i> language arts, geography; presentation	COMING SOON TechnoCommercial Produce a commercial using proven marketing and production techniques. Storyboard a concept, record the action, and edit the footage. Export the video. <i>Blender</i> video production	TechnoCode Spark an interest in computer science. Design an Activity Studio for kids using Scratch. Build blocks of code to design animations, puzzles, stories, and games. <i>Scratch</i> math, language arts; coding
Grades 7/8	TechnoBiography Celebrate a remarkable person. Format the bio using styles, graphic organizer, and artifacts table. Build a table of contents. Cite sources in a bibliography. <i>Word or Docs/Drawings</i> language arts, history; word processing	TechnoBudget Justify a spending plan for a shopping trip. Calculate, and graph data to form a budget. Report financial choices and explain money management strategy. <i>Excel/Paint/Word or Sheets/Drawings/Docs</i> financial literacy; spreadsheets	TechnoMap Highlight the importance of a location by constructing an interactive map. Connect facts about an area or issue using markers and hyperlinks. <i>PowerPoint /Word or Slides/Docs</i> geography, history; presentation	TechnoHTML5 Develop a web page using HTML and CSS. Write code to set the style of the background, text, lists, graphics, hyperlinks, and tables. Upload to the Internet. <i>Notepad or other text editor</i> web design; coding	
Grades 8/9	TechnoEarth or TechnoEnvironment Raise awareness of an environmental issue. Design either an infographic with Google apps or a pamphlet with Publisher. Advocate for change. <i>Word/Publisher or Docs/Sites/Slides/ Sheets/My Maps/Drawings</i> geography, science; publishing, presentation	TechnoQuestionnaire Investigate a research question. Select a sample and construct a questionnaire. Conduct a pre-test to tweak the design. Analyze data to interpret findings. <i>Google Forms</i> research; data management	TechnoDebate Collaborate with a partner to debate an issue. Create an animated conversation that presents a persuasive argument. Defend a position. <i>PowerPoint Online or Slides</i> language arts, debate techniques; presentation	TechnoPython Program a series of games using Python including Pet Monster Rescue, Guess It, and Adventure Quest. Share your favorite one in a coding presentation. <i>IDLE Python 3</i> math, language arts; programming	TechnoBot AI Program a drone delivery system, robot pick-up service, and self-driving tour that solve real world problems using artificial intelligence. <i>Scratch, PowerPoint or Slides</i> programming, artificial intelligence