

Standard X. The video technology teacher has the knowledge and skills needed to teach the Foundations, Information Acquisition, Work in Solving Problems, and Communication strands of the Technology Applications Texas Essential Knowledge and Skills (TEKS) in video technology, in addition to the content described in Technology Applications Standards I–V.

Teacher Knowledge: What Teachers of Video Technology Know

Teachers of Students in Grades 8–12

The beginning teacher of video technology knows and understands:

Foundations

- 10.1k the appropriate use of hardware components, software programs, and their connections;
- 10.2k data input skills appropriate to a given task;
- 10.3k pertinent laws and issues regarding the use of technology in society;
- 10.4k a variety of strategies for acquiring information from electronic resources;
- 10.5k how to acquire electronic information in a variety of formats;

Application: What Teachers of Video Technology Can Do

Teachers of Students in Grades 8–12

The beginning teacher of video technology is able to:

Foundations

- 10.1s demonstrate knowledge and appropriate use of digital and analog video systems, software applications, and communication and networking components;
- 10.2s compare, contrast, and appropriately use the various input, processing, output, and primary/secondary storage devices;
- 10.3s make decisions regarding the selection, acquisition, and use of video technology software, taking into consideration its quality, appropriateness, effectiveness, and efficiency;
- 10.4s use vocabulary related to video technology;
- 10.5s compare and contrast linear and nonlinear editing;
- 10.6s outline differences among electronic input devices as related to video technology;
- 10.7s demonstrate proficiency in the use of a variety of electronic input devices by incorporating such components into video-related products;
- 10.8s analyze the impact of video technology on society;
- 10.9s acquire information in electronic formats, including text, audio, video, and graphics, citing the source;

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Teacher Knowledge: What Teachers of Video Technology Know

Foundations (Continued)

10.6k how to evaluate acquired electronic information;

Application: What Teachers of Video Technology Can Do

Foundations (Continued)

10.10s engage in preproduction planning by surveying sites and obtaining necessary permits and release forms;

10.11s demonstrate skill in testing the accuracy and validity of acquired information;

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Teacher Knowledge: What Teachers of Video Technology Know

Work in Solving Problems

10.7k how to use appropriate computer-based productivity tools to create and modify solutions to problems;

10.8k how to use research skills and electronic communication to create new knowledge;

Application: What Teachers of Video Technology Can Do

Work in Solving Problems

10.12s use foundation and enrichment curricula in the development of video and digital products;

10.13s integrate productivity tools to develop and modify solutions to problems for video productions;

10.14s create video products for a variety of purposes and audiences;

10.15s develop technical documentation related to video technology;

10.16s demonstrate proficiency in, appropriate use of, and navigation of local area networks (LANs), wide area networks (WANs), the Internet, and intranets for research and for sharing of resources;

10.17s participate in relevant activities in the larger community and society to create video projects;

10.18s extend the learning environment beyond the classroom through the creation and sharing of video products via electronic networks;

10.19s demonstrate knowledge in composition, including ratio of image to frame, position in frame, line of gaze, pan/tilts, movement, and perspective;

10.20s demonstrate proficiency in basic camera techniques, including zoom, focus, iris control, white balance, and filters;

10.21s create visual communication by applying the strategies of script writing;

10.22s engage in preproduction activities, including storyboarding, script writing, production, contracting, and scheduling;

10.23s utilize lighting techniques, including key, fill, and backlight, and using incident/reflected light, color temperatures, and filters;

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Teacher Knowledge: What Teachers of Video Technology Know	Application: What Teachers of Video Technology Can Do
Work in Solving Problems (Continued)	Work in Solving Problems (Continued)
	10.24s use audio techniques to create, edit and integrate digital sounds;
	10.25s participate in different roles and jobs of a production crew, including executive producer, producer, director, engineer, script writer, editor, camera person, presenter, and audio technician;
	10.26s apply appropriate postproduction techniques, including editing and creating control and/or time coded tracks, transitions, audio levels, background music, and special sound effects;
	10.27s apply 2-D, 3-D, and multidimensional animation effects to video;
	10.28s use character generators, fonts, colors, and principles of compositions to create graphic images;
	10.29s create captions and titles for video and graphics;
	10.30s use different compression techniques and programs;
	10.31s demonstrate knowledge in outputting digital video to analog and analog video to digital;
10.9k how to use technology applications to facilitate evaluation of work, including both process and product;	10.32s design and implement procedures to track trends, set time lines, and review/evaluate progress for continual improvement in work process and product;
	10.33s seek and respond to advice from colleagues and other professionals in delineating technological tasks related to video technology;
	10.34s create technology specifications for problem-solving tasks and evaluation rubrics;

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Application: What Teachers of Video Technology Can Do

Work in Solving Problems (Continued)

10.35s resolve information conflicts and validate information by accessing, researching, and comparing data related to video technology;

10.36s monitor work process and product quality using established criteria;

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Teacher Knowledge: What Teachers of Video Technology Know

Communication

- 10.10k how to format digital information for appropriate and effective communication;

- 10.11k how to deliver a product electronically in a variety of media; and
- 10.12k how to evaluate communication in terms of both process and product.

Application: What Teachers of Video Technology Can Do

Communication

- 10.37s use font attributes and color to ensure that products are appropriate for the defined audience and communication purpose;
- 10.38s use white space and graphics to ensure that products are appropriate for the defined audience and communication purpose;
- 10.39s use camera perspective to ensure that products are appropriate for the defined audience and communication purpose;
- 10.40s use content selection and presentation to ensure that products are appropriate for the defined audience and communication purpose;
- 10.41s publish information in a variety of ways;
- 10.42s evaluate video technology projects for design, content delivery, purpose, and audience using established criteria;
- 10.43s seek and respond to advice from colleagues and other professionals in evaluating video technology products; and
- 10.44s perform research to determine the best method of distribution, the number of copies of the finished product needed, and the most appropriate method for promoting a video technology product.