

Technology Multimedia



**GUIDELINES FOR
 TECHNOLOGY/MULTIMEDIA
 PROJECTS**

Multimedia is the use of **computers** to present **text, graphics, video, animation,** and **sound** in an **integrated, interactive** way. Multimedia projects **must** consist of two or more media!

1. Include work from one or more of the following areas:

- Origin of Coal
- Science of Coal
- Mining Method(s)
- Transportation Mode(s)
- Use(s) of Coal
- Economic impact of coal on local, state, or both levels
- Employment impact of coal on local, state, or both levels
- Computer aided, assisted, or controlled technology in the coal industry
- A topic of your choosing that would have significant relevance to the coal industry

2. **Technology/Multimedia Projects** may include, but are not limited to the following listed suggestions as they relate to coal.

- Video Productions
- Computers Programs
- Computer-generated Mine Simulations (video graphics models)
- Computer-oriented Problem Solving Analysis
- Robotics
- Hydraulics
- Pneumatics

Specifics for Certain Projects:

Length of Entry: Video Production

MAXIMUM	K-4	5-8	9-12
	5 minutes	8 minutes	10 minutes

- A. **VIDEO PRODUCTIONS:** May be in black and white or color finish: edited or “documentary” type production style. Acceptable formats are ½” VCR format cassette tape or CD/DVD recordable media (Labels need to provide information as to the type of player needed to view the CD/DVD such as Quick Time or Real Player. Also, student is responsible for providing this software.)
- B. **COMPUTER PROGRAMS:** May include any of the following scenarios:
- Computer Simulations—Computer graphics or 3-D images of an underground or surface mine. Animation is suggested.
 - Computer Oriented Problem Solving Analysis—May include a program on coal production (the history of); a program showing the composition or chemistry of coal.

3. Each **Technology/Multimedia Project** must include a written description or explanation.

- ✓ Double-spaced on 8 ½” x 11” paper.
- ✓ 1-3 pages for K-4 grades
- ✓ 3-5 pages for 5-12 grades

This explanation is to communicate the concepts and ideas of the project clearly and explain how and/or why the student used a technology or a multimedia format as a tool to present, investigate, or validate his/her research. Please observe all copyright laws. The written description should be in a clear-front presentation binder.

RECOMMENDATION: Students who submit a computer project should come to the gymnasium on the day of judging to demonstrate their program to the judges. CEDAR will provide a computer (3.5” floppy disk). If additional computer hardware/software is required or if CD/DVD recordable format is used, it will be the student’s responsibility to provide. (Demonstrations will be limited to 10 minutes). It is highly recommended that student’s focus on the content of the project with the technology/multimedia facilitating and/or enhancing the learning experience.

**SCORING SHEET
TECHNOLOGY/MULTIMEDIA**

PROJECT NO.

	<u>Points Available</u>	<u>Points Awarded</u>
RELEVANCE TO COAL	20	_____
CREATIVITY Project shows originality, creativity, and enterprise Each aspect of project supports the theme	25	_____
STUDENT UNDERSTANDING Research appropriate, consistent, and balanced Variety of resources Focus, depth of understanding of medium used	25	_____
APPEARANCE Neat and well organized Project is well stated and a conclusion is reached Data arranged coherently Quality of tape/CD/DVD or computer program	15	_____
ORGANIZATION Purpose, format appropriate Use of data Within time limit	15	_____
TOTAL POINTS AWARDED		_____

REMARKS:
