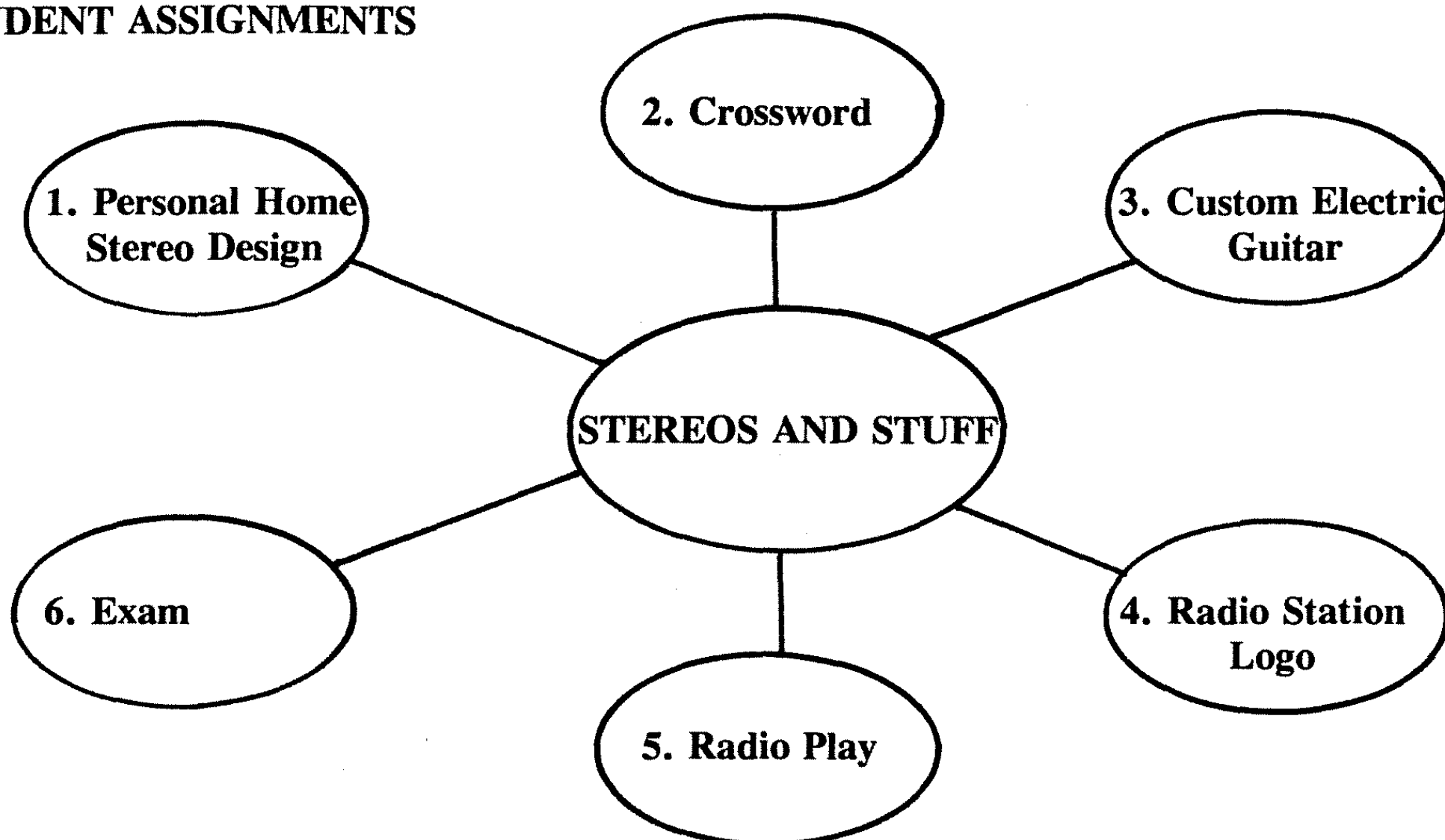


STEREOS AND STUFF

UNIT OVERVIEW

In this unit, students discover the workings of Hi-Fidelity stereo equipment such as Turntables (Record Players), Cassette Players, and Compact Discs. Students also look at the workings of AM and FM radio. Innovative assignments stress creative and critical thinking with many possibilities for drama in this unit. A major project concludes the unit with students writing fifteen-minute radio scripts.

STUDENT ASSIGNMENTS



1. **Personal Home Stereo Design** - Students design their own personal stereo system complete with any extra luxuries they wish to add.
2. **Crossword** - Students learn about music equipment used by modern rock bands.
3. **Custom Electric Guitar** - Students design, customize and paint an electric guitar. Graphic colors should be used.
4. **Radio Station Logo** - Students design draw and color the logo for an imaginary radio station.
5. **Radio Play** - (Major Project) In pairs, students write a script for 15 minutes of radio time. News weather, sports, songs, commercials and D.J. talk should all be included. Students should try to proportion the time spent on each portion based on a real radio broadcast.
6. **Exam** - Sample exam included.

ASSIGNMENT #3 - CUSTOM ELECTRIC GUITAR

Student Objectives

- Students design, draw and paint an original, life size, electric guitar.

Suggested Teaching Strategies

- Students should complete the preliminary parts of the design such as the shape and rough sketch quickly.
- Rolled white paper works well with cardboard and wood as a backing.
- A possible extension activity could be to use the completed guitars in an air band competition.

ASSIGNMENT #4 - RADIO STATION LOGO

Student Objectives

- Students (in pairs) design, draw and color a logo for an imaginary radio station.

Suggested Teaching Strategies

- This assignment is a lead-up to the Radio Play major project so only one period should be taken for this.
- Students should design a logo and name that reflects the music format of their radio station on 8 1/2" x 11" paper (manilla tag).
- Examples, both real and student-made are included in the unit.

ASSIGNMENT #5 - RADIO PLAY

Student Objectives

- In pairs, students write a script for 15 minutes of radio time including, news, weather, sports, commercials, DJ talk, and song titles.

Suggested Teaching Strategies

- Before beginning their scripts, the class should listen to 15 minutes of actual AM radio so they are able to proportion time spent on news, sports, songs, etc.
- Use the Radio Time Tasksheet provided to time the various elements beginning at the top of the hour. (see example provided)
- Students could be given the opportunity to record their radio plays on cassette tape after the written scripts are complete.
- Students could perform their radio play in front of the class.

Exam

The exam provided is only a suggested exam and teachers are encouraged to delete or add questions based on the material emphasized in the unit.

STEREOS AND STUFF

In this unit, you will discover the workings of Hi-Fidelity stereo equipment such as Turntables, Cassette Players, Compact Discs, and AM/FM Radio.

Marking will be based on:

- 1) Amount of effort and work done on assignments
- 2) Originality and creativity
- 3) Correctness of assignments
- 4) Exam

Each student begins with 100 marks. As assignments are handed in, marks will be deducted.

STEREOS AND STUFF		STUDENT NAME _____	
ASSIGNMENT	MARKS ASSIGNED	MARKS DEDUCTED	RUNNING TOTAL
1. Personal Home Stereo Design Possible 10 Marks			
2. Crossword Puzzle Possible 10 Marks			
3. Custom Electric Guitar Possible 10 Marks			
4. Radio Station Logo Possible 10 Marks			
5. Radio Play Possible 30 Marks			
6. Exam Possible 30 Marks			
STEREOS AND STUFF		TOTAL _____ %	

NEW TECHNOLOGY

LASER VIDEODISCS (CD ROM)

Laser Videodiscs may replace VCRs in the future.

Videodiscs work exactly the same as a CD using a laser to read tiny little bumps. The difference is that a videodisc stores video information as well as sound. (Videodiscs are used in Karoki Machines to make sound and pictures) This results in high quality sound and video reproduction because videodiscs are digitally recorded.

Huge amounts of information can be stored on videodisc. (A whole set of encyclopedias can fit onto one disc!) This could completely change many things from schools and learning to libraries and entertainment. Videodiscs are also being used in the field of Virtual Reality.

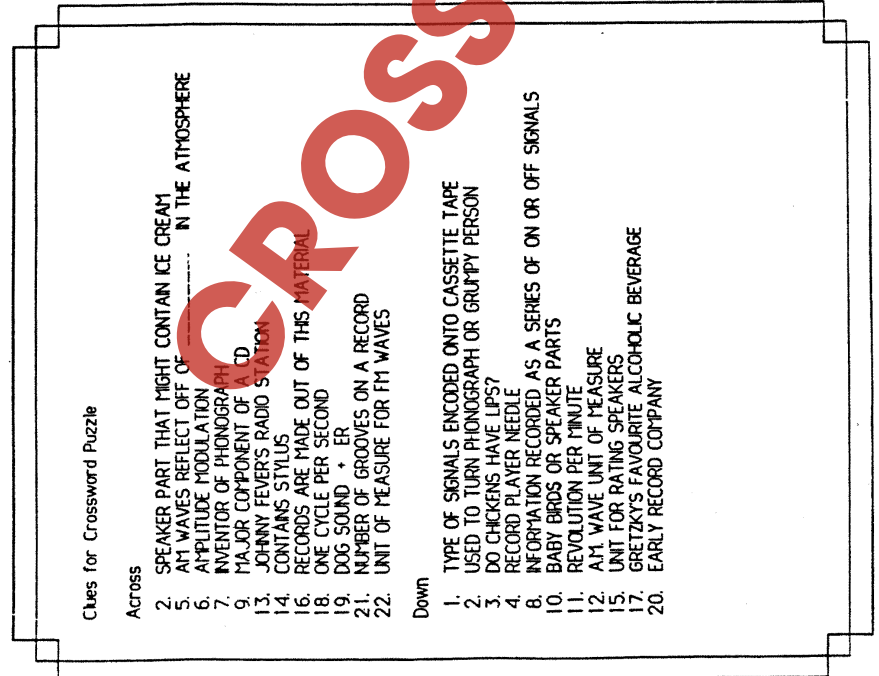
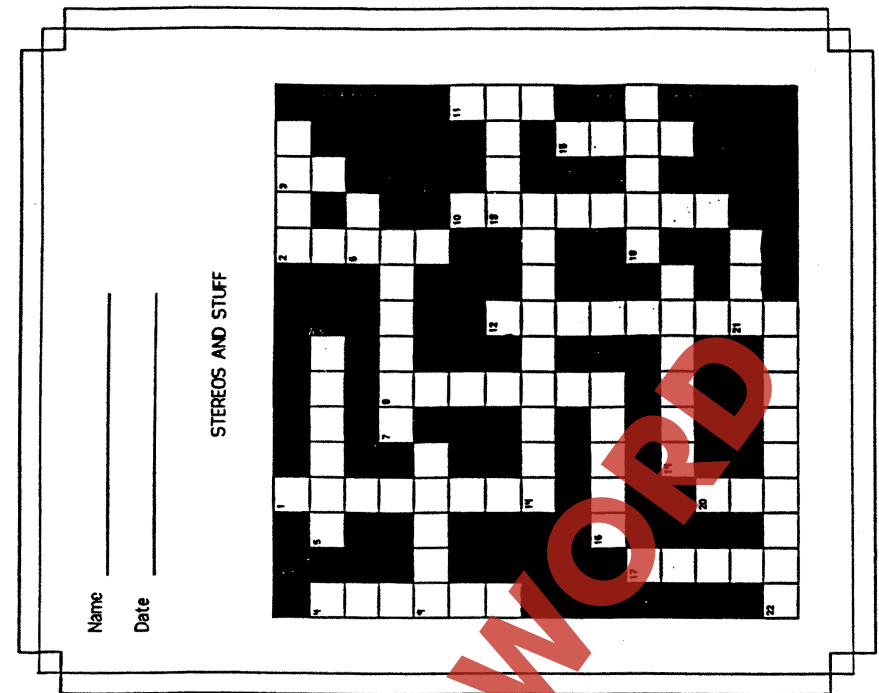


RADIO TIME

Use the tasksheet to keep track of all the different portions of 15 minutes of radio time. Every 30 seconds jot down what is on the air. (News, Sports, Commercials, Songs, DJ talk, etc) Use your findings as a guideline in deciding how much time should be allotted for each portion of your own radio script.

Radio Station _____

TIME (Seconds)	ACTIVITY
0:00	
0:30	
1:00	
1:30	
2:00	
2:30	
3:00	
3:30	
4:00	
4:30	
5:00	
5:30	
6:00	
7:00	
7:30	
8:00	
8:30	
9:00	
9:30	
10:00	
10:30	
11:00	
11:30	
12:00	
12:30	
13:00	
13:30	
14:00	
14:30	
15:00	



MUSIC EXAM

NAME: _____

1. Fill in the blanks:

- The diamond needle on a stereo is called this: _____.
- FM stands for _____ modulation.
- An example of a CD-V is _____.
- The name of the inventor of the phonograph is _____.
- These waves do not reflect off of the atmosphere. _____.
- DAT stands for _____.
- Speakers use a _____ in a magnetic field to produce sound.
- The company that produced the first records was _____.
- One revolution in one minute is called this _____.
- The number of grooves on a record _____.

2. Describe how a CD works. (Use a diagram)

3. List the pros and cons of CD player.



