

Appendix B
Equipment

Instruments and Classroom Equipment

In order to start and maintain an *Ensemble Performance* program, teachers and administrators must consider initial and subsequent funding.

Instruments (Band/Orchestra)

All schools should strive to obtain the following instruments to insure balanced instrumentation. Parents cannot be expected to rent or buy expensive instruments in the introductory years.

Initial

- 1 tenor saxophone
- 2 French horns
- 2 baritone horns
- 1 tuba
- 5 cellos
- 2 double basses
- 1 snare drum
- 1 bass drum
- 1 pair crash cymbals
- 1 suspended cymbal
- 1 set bells
- Miscellaneous percussion instruments (shakers, claves, tambourine, woodblock)

Subsequent

- 1 oboe
- 1 tenor saxophone
- 1 baritone saxophone
- 1 bass clarinet
- 1 bassoon
- 1 alto clarinet
- 1 French horn
- 1 tuba
- 1 xylophone
- 2 tympani drums (26" and 29")

Instruments should be purchased as the need arises.

Less expensive instruments (flutes, clarinets, trumpets, alto saxophones, trombones, violins, violas) should be provided by parents or school/parent organizations, through direct purchase or a rental-purchase plan. In some schools it may be necessary to keep these instruments for loan or rent. All students should be encouraged to obtain their own instruments during the intermediate years of the instrumental program.

Budgets may be supplemented through parental fund-raising associations and students' program fees.

Supplementary Equipment and Materials (Choir/Band/Orchestra)

The following is a list of supplementary equipment and materials:

- music stands
- quality chairs
- risers
- tuning device
- bulletin boards/chalkboards
- recording/playback system
- storage cabinets
- piano or electronic keyboard
- metronome

Ongoing Expenditures (Choir/Band/Orchestra)

An annual grant should be provided for the following:

- music/scores
- instrumental repairs and maintenance
- resource materials

Concert Band

Although concert bands vary in instrumentation and size, a standard range of instruments is necessary for the best musical results.

Instrument	Small Program (38-55)		Medium Program (63-78)		Large Program (89-106)	
	Minimum - Ideal		Minimum - Ideal		Minimum - Ideal	
Piccolo	0	1	1	1	1	1
Flute	5	7	8	10	10	12
E ^b Soprano clarinet	0	1	1	1	1	1
B ^b Soprano clarinet	9	12	12	14	16	20
E ^b Alto clarinet	1	1	1	2	1	1
B ^b Bass clarinet	1	2	3	4	2	2
Contra clarinet	0	0	0	0	1	1
Oboe	0	1	1	2	2	3
English horn	0	0	0	0	1	1
Bassoon	0	1	2	2	3	3
E ^b Alto saxophone	2	3	3	4	4	4
B ^b Tenor saxophone	1	1	1	2	2	3
E ^b Baritone saxophone	1	1	1	2	2	2
B ^b Cornet/trumpet	4	6	8	9	10	12
French horn (alto horn)	3	4	4	6	8	8
Tenor trombone	2	4	5	5	6	6
Bass trombone	1	1	1	2	2	3
Euphonium (baritone horn)	2	2	3	4	4	6
Tuba	1	2	2	3	3	4
String bass	0	0	0	1	1	2
Percussion	4	4	5	5	6	6

Concert Orchestra

The numbers in the instrumentation of a concert orchestra may vary, particularly in the string section. The following breakdown represents the ideal concert orchestra instrumentation.

1st Violins, 10 - 14	Bassoons, 2
2nd Violins, 10 - 14	Saxophones, as required
Violas, 8 - 12	Trumpets, 3
Cellos, 6 - 10	French horns, 4
Basses, 4 - 6	Trombones, 2 (bass trombone, as required)
Piccolo, 1	Tuba, 1
Flutes, 2	Percussion, 4-6
Clarinets, 2 - 3 (bass clarinet as required)	Harp, as required
Oboes, 2 (English horn as required)	Piano, as required