

Instrument Pedagogy Cheat Sheets

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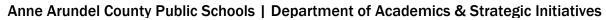
Pedagogy Guides include the following:

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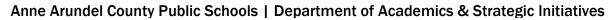
Flute

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Posture/Instrument Position	 Relaxed, no smiling Lips should be flat, not puckered (say "mmmm" to get correct shape) Aperture should be small as if blowing out a candle Line up the tone hole with the center of the student's lips, and roll the head joint down The edge of the tone hole should be on the edge of the player's lip, where it meets the skin of their face. Blow across the tone hole, as if you are blowing across a pop bottle. To focus student's tone, ask them to close off all of the air with ONE finger. There shouldn't be air escaping from the sides. If they can't produce a tone, adjust where you're setting the lip plate—they might need it a little higher NO RIGHT ELBOW ON THE BACK OF THE CHAIR – sit up toward the front of the chair or even to one side of the chair Flute should be pushed forward slightly
	 Chin should be away from left shoulder, left shoulder does nothing to help hold the instrument Have student sit in a neutral position without their flute, tell them to stay in that position and bring the flute to their face. The head should not move forward or to the left to meet the flute The students should make a little ledge with their left index finger, on which to rest the flute. The right hand thumb should be in-between the index and middle finger *BoPep thumb guides are GREAT for this; cheaper version is a corn pad. Left elbow should be high enough that the player's airstream is pointing toward the point of the elbow's bend. Flute should be parallel to the floor; embouchure will suffer if flute tilts downward. *More important is that the lip moves with the instrument; rigid 90 degree angles are less necessary.*
Hand Position	 Contact points to hold instrument are chin, crook of left index finger (Captain Hook), right thumb; students should use opposite pressure to hold instrument in place (left hand pushes back, right hand pushes forward) Keep fingers close to the keys to allow for faster technique, hover over keys not being used Fingers should be curved not straight Right thumb should stay under first trill key not sticking out front; tip of the left thumb should be used for thumb keys, not the entire thumb Don't break the wrists – if wrists are bent, position of the flute is wrong. Keys should point toward the ceiling not in front or behind. Right hand shouldn't collapse onto the rods; Left pinky shouldn't hide under the Ab key; Eb key should be in the center of the last key of the body. Right thumb in-between index/middle fingers.
Breathing/Breath Support	Pneumo Pro is a great tool to help breath support and the direction of the air stream



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	Blow the flame of a candle and see if you can hold the blue
	part of the flame before it goes out
	Make certain throat is relaxed
	Just let the belly fall out, and the diaphragm will create a
	vacuum to pull the air in
	Take the foot joint off. Put the END of it (not the part with)
	the Tenon) against the gums, wrap the lips over it, and
	inhale. Instantly, the students will feel that rush of cold air
	moving over an open throat.
	Using the empty case against the wall, have students lean
	into case. They should take a deep breath and hiss out,
	keeping themselves pushed away from the case.
Intonation Tendencies &	C#/D-flat – no pinky, right hand fingers down to help lower
Corrections	the pitch
	B-flat above the staff – push A-flat key to help intonation
	E above the staff – no pinky helps note to speak and lowers
	pitch
	Tune to A; not B-flat or F Notes that are sharp, you can add fingers in the right hand.
	Notes that are sharp—you can add fingers in the right hand (i.e. C#, R, high Ab). Also, some alternate fingerings (high
	(i.e. C#, B, high Ab). Also, some alternate fingerings (high F#-play with finger 5 instead of 6)
	Sharp? Drop your jaw, roll in. Flat? Raise your eyebrows and lip it up, roll out.
Alternate Fingerings	Thumb B-Flat to avoid right hand index finger UNLESS it's a
Miteriate i ingerings	chromatic passagethen use 1 + 1
	F# above the staff – use right middle finger instead of ring
	finger and make certain to use the single thumb key
	The right hand pinky is largely unnecessary. It is only
	mandatory for E (low/middle), Eb (all), and high A.
	Everything else, you can take it off to make fast passages
	easier.
	Keep overblowing middle E? Straddle right pinky over the
	Eb and low C# keys, and you can blow as hard as you like.
	Won't crack.
	 Low C, C#, B won't speak? Slap the LH G key as the student
	is articulating the note.
	 High E a problem? Don't put the RH pinky down.
Common	 Moving head/rolling in or out teaches bad habits to change
Errors/Misconceptions in	intonation – intonation should be fixed with air not head
Pedagogy	placement
	Embouchure should never feel tight
Other Specific Issues and/or	 Piccolo players should use piccolo fingerings (not all are the
tricks	same from flute)
	 Don't be afraid of high notes, use plenty of air and don't
	pinch embouchure
	Check the alignment of the foot joint so that pinkies aren't
	being strained
	Teaching vibrato: have kids "whoo" on quarters, then
	eighths, sixteenths, quintuplets, sextuplets. As they get
	faster, have them smooth it out so that each "whoo" isn't
	noticed.
	Teaching double-tonguing: too-koo or duh-guh work great. For triple tonguing have them just double tongue, the or
	For triple-tonguing, have them just double tongue: tkt or
	dgd, to avoid having a couple single tongues in a row.



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Quality Equipment	Beginner Flutes – Yamaha, Gemeinhardt, Armstrong, Trevor
Recommendations	James
	Intermediate – Yamaha, Pearl, Sonare, Trevor James Perfectional Park Pearl Management Missagement Perfections of Park Pearl Management Missagement Missa
	Professional – Burkart, Powell, Muramatsu, Miyazawa, Harman
	Haynes
	 Piccolo – concert band: Pearl, Burkart Resona model; marching band: Gemeinhardt, Yamaha (use plastic not metal)
	 It depends on the player. I could try the same instrument as someone else and not get the same sound, because of the way the tone is resonating inside the oral cavity, etc. When they go to get an intermediate flute: bring a tuner and a favorite music friend (mom, lesson teacher), along with a
	piece they know really well. Make sure the instrument plays pretty well in-tune, and that it speaks easily in the upper register and the low register.
	 Necessary in step-up instruments: B foot, silver head joint (the rest can be an alloy at this point), open hole.
	 Not necessary: gold lip plate (unless the student has an allergy—the black smudge? Just make-up reacting), split E (my piccolo has one, not on flute, don't miss it), roller on the foot joint or gizmo key for high C (never had them, no issues), C# trill, offset G (only if they have ridiculously teeny LH ring finger), soldered vs. rolled or pointed arms PICCOLO: don't buy metal. If they can't afford wood, look for plastic.
Problem Solving Tips	For lower notes point air stream toward elbow, higher notes point air stream toward ceiling
	 Sometimes raising your eyebrows helps with intonation Do a lot of long tones. Practice harmonics from low C, low C#.
Emergency Repairs	Check springs
	Adjustment screws on right hand keys – don't over tighten
	Check cork in head joint – notch in the end of the cleaning
	rod should be in the center of tone hole in the lip plate
	Use tobacco paper for sticky pads, keep a teeny screwdriver
	with you to tighten loose screws.
	 For sticky head joints, spritz with rubbing alcohol or scrape the tenon with a pencil (scoots away the gunk!)



Oboe

Embouchure	 Think "oooh." The less pressure on the reed, the better, so it can vibrate. The bottom lip is the cushion for the reed to sit upon and do its job correctly and let all the overtones ring out. 	
Posture/Instrument Position		
Hand Position	 Watch out for the right hand, especially with student oboes. If the hand is tilted too far towards the student, it's very easy to accidentally hit the right Ab key. Results are strange "extra" sounds 	
Breathing/Breath Support	 Fast, focused air. 	
Intonation Tendencies & Corrections		
Alternate Fingerings		
Common Errors/Misconceptions in Pedagogy	That oboe is difficult.	
Other Specific Issues and/or tricks	 As you go down the scale and your notes begin "gurgling', drop you jaw (think the donkey EE-AW), to allow the reed to let more air through to get the low notes to speak correctly. If upper notes sag, faster air and raise your eyebrows. 	
Quality Equipment Recommendations	 Ann Hodge Double Reed Supplies North Texas Reeds American Oboe Reed Company 	
Problem Solving Tips	• •	
Emergency Repairs	 Play F#, then add the left Ab key. If the pitch changes, tighten/loosen the screw above the F# key. This will solve many problems. 	



Bassoon

Dassuuli		
Embouchure	 Equal pressure surrounding the reed (i.e. "drawstring bag") 	
	 Bring the corners of the mouth forward (no smile) 	
	 Chin should NOT be flat like single reed embouchure 	
	 Embouchure should be relaxed not firm 	
	 Approximately ¾ of reed should be in mouth 	
Posture/Instrument	 Sit on the whole seat of the chair with the seat strap up at the 	
Position	front edge of the chair	
	 Using a next strap or harness while sitting is NOT 	
	recommended	
	• Instrument should be held across the body at an angle and the	
	player should read music to the right of the instrument	
	The seat strap should hold the weight of the instrument, and	
	the instrument is balanced with a contact point on the right	
Hand Davition	leg and the left hand	
Hand Position	Left hand should contact the instrument at the base of the	
	first finger	
	 Hand rest or "crutch" for the right hand is optional, whatever makes the player comfortable. The hand rest is not for 	
	holding the instrument, it is for helping to orient the right	
	hand near the correct keys	
	When thumbs are not in use they should hover near the	
	thumb keys. Watch for bad habits with moving either thumb	
	to a "resting place" on the instrument	
Breathing/Breath Support	Player should feel resistance from the instrument when	
	blowing into it (significantly more than saxophone, slightly	
	more than clarinet). If there is no resistance, they are not	
	using enough breath support.	
Intonation Tendencies &	 Low notes (low F and below) tend to be sharp, lower jaw to 	
Corrections	correct pitch	
	Notes around middle C tend to be flat, support with air and	
	embouchure to correct pitch	
	 Top left hand pinky key can be added to almost all higher notes (treble clef) to correct pitch and stabilize the tone 	
Alternate Fingerings	• ½ hole for middle F#, G, and Ab	
Alternate ringerings	• Flicking/venting for A, Bb, B, C, D around middle C	
	 Pinky F# for playing F# to Bb 	
Common	Too firm of an embouchure and not enough air leads to a	
Errors/Misconceptions in	pinched sound	
Pedagogy	 Do not tune instrument by pulling out or pushing in bocal. 	
	The player must adjust with embouchure and air.	
Other Specific Issues	Bocals come in different lengths and are labeled with	
and/or tricks	numbers (lower number = shorter bocal) Most players will be	
	in tune on a 2 or a 3	
	 Advise students handle bocal from the base near the cork 	
	when putting in and taking out to avoid bending. Also watch	
	the whisper key pad when putting the bocal in and taking it	
	out.	
	Bassoons with string tenons can have string added or	
0 111 11	removed to adjust the tightness of the joints.	
Quality Equipment	Handmade reeds: www. millerdoublereed.com, www.	
Recommendations	forrestmusic.com, <u>www.charlesdoublereed.com</u>	
	Fox bassoon (student models are Fox Renard) Looth or cost strong print the clasic batton then foliais.	
	 Leather seat straps grip the chair better than fabric 	



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Problem Solving Tips	 If low notes are not responding: check that fingers are covering holes completely, try slurring down one note at a time from low F, crow reed to listen for lower partials to determine if the reed is the problem If A, Bb, B, C, or D around middle C are cracking or sounding an octave too low, check that the whisper key lock is not on. If it is not on, these notes need to be flicked using one of the thumb keys above the whisper key
Emergency Repairs	 If whisper key is not closing, check the spring located near the top of the rod If the whisper key pad comes off, it can be glued/taped back on with almost anything. The hole that it covers is very small so it does not need to be seated well like other pads. Keys that are closing but not closing completely can be adjusted by wrapping tape around a rod where it contacts another rod (similar to how you would adjust the tiny screws on a flute or saxophone)



Clarinet

er the lower teeth (as if putting on d uld be in mouth wrap the lips around the
ack of the chair degrees from the body a little bit different based on the
d whether you have an overbite or
bottom
re of the hand he top, right thumb knuckle joint. veen the first and second fingers. cover the tone holes he tone holes so no air escapes
nt
e mouth while keeping the center
think all the way down to your the to speed up the air and focus the ouching top molars)
line Bb) tend to play quite sharp -
om joint tend to play flat - use faster air e n of the barrel can help with each cies. Pulling out slightly if re everything is pushed in if
e colder the instrument it can play
a cases where the sequence of e either physically impossible to ings, or are difficult to play at the ng the passage down. Sometimes in purposes. E played with 1st and sliver key in thumb and right hand side keys, there key can also be played with A and from the bottom.
rd from th



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	on One" meaning first finger covers first tone hole on upper joint, and first finger covers first tone hole on lower joint
Common Errors/Misconceptions in Pedagogy	 More a release than an attack, the tongue is pulled away from the reed and air is blown through the mouthpiece Proper tonguing requires the tip of the tongue lightly touching the tip of the reed Using a "dah", "du" or "nu" syllable instead of "tah" will facilitate this release High notes
	Do NOT squeeze harder to play notes over the break. The embouchure should stay the same. Fingers
	 Use the pads of the fingers to cover the holes, not the finger tips. Alternate Fingerings To be used only in special circumstances. They are not a free for all choice.
Other Specific Issues and/or tricks	 Crossing the Break Try not to make a big deal out of it. If students have been told that it's hard, they will tense up and squeeze the mouthpiece. To get them over the break, have them play low E with a strong sound and lots of air, then sneak up behind them and push the register key. This prevents them from tensing when they know it's coming.
Quality Equipment	Mouthpiece
Recommendations	Fobes Debut or Hite PremierVandoren B45
	Instruments
	Student models: Yamaha, Bundy, Selmer
	Intermediate: Buffet E-11 Professional: Buffet B-12, LeBland Salman Professional: Buffet B-12, LeBland Salman Professional: Buffet B-12, LeBland Salman Professional: Buffet B-13, LeBland S
	Professional: Buffet R-13, LeBlanc, Selmer Reeds (there will be lots of disagreements here :-))
	Beginners: Rico Royal or Mitchell Lurie
	Vandoren
Problem Solving Tips	Rico Reserve Caucalt
Froblem Solving Tips	Squeak Too much mouthpiece
	Not enough lower lip over teeth
	Lips around mouthpiece not firm enough
	 Squeezing the mouthpiece too hard with the lips Fingers not completely covering holes (especially on low G, F, E and over the break)
	 Reed too soft or too hard, or not centered on the mouthpiece "Huffing" instead of keeping air constant and tonguing
	Fuzzy sound • Bad reed or reed too hard
	water in key
P	• lose pad
Emergency Repairs	 A toothpick can be used in place of a missing screw on rods. A wad of tissue or paper towel can be used in place of a missing pad (this will need to be fixed immediately though!) A rubber band can be used in place of a missing spring (sometimes)
	A rubber band in place of a broken ligature



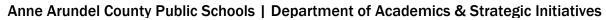
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• Eye glass repair kit mini screw driver to tighten lose screws



Saxophone

	Saxupiiulie
Embouchure	 Equal pressure surrounding the reed (i.e. "drawstring bag")
	 Bring the corners of the mouth forward (no smile)
	Chin should be firm
	 Amount of mouthpiece may be determined by the "break-
	point" where the reed separates from the mouthpiece (may
	want to draw line with pencil and have student place
	thumbnail on line to feel how much mouthpiece is required)
	Top teeth on mouthpiece.
	Bottom lip rolls in to cover bottom teeth to serve as
	protection against reed.
Posture/Instrument	• Sit front 1/3 of seat so instrument does not rest on seat.
Position	 Mouthpiece should contact upper lip when mouth is <u>closed</u> if
	neck strap is appropriately adjusted
	 All beginners should begin with the instrument off to the side
	until their torso is tall enough for them to play in the middle
	without their right arm contacting their right leg. Most
	students reach that point in early high school or for a very tall
	student in late middle school.
	 Sax MUST come to student (raise neck strap); student should
	NEVER lean down to sax.
	 Tenor and Bari will always be played on the right side of
	body. Same concept of neck strap applies to these saxes as
	well.
Hand Position	Left hand: Curved and Relaxed – if student is having difficulty
	reaching the keys, examine the L.H. thumb position to
	increase ease and efficiency
	 Right hand: Curved and Relaxed – each finger has
	responsibilities with alternate keys (RING Finger plays forked
	F#, not the middle finger)
	Pinkie fingers should remain curved and hover above
	appropriate keys at all times
	 Fingers are to be on the pearls of the keys.
	 Fingers need to stay close to keys; no flying away.
	 Left hand thumb acts as a pivot point between thumb rest and
	octave key; students should never be lifting off to get the
	octave.
	 Right hand thumb is positioned directly under the thumb rest.
Breathing/Breath Support	Higher Notes – Cool Air
	 Lower Notes – Warm Air
	 Long-tones with wider intervals are great (i.e. slurring 5ths G,
	Low C, Middle C, etc.)
	 From the diaphragm; deep breath through the mouth. Lower
	notes need more air. Higher notes need air but controlled by
	a firm embouchure.
Intonation Tendencies &	Tune to lower register (Concert Bb or A for alto)
Corrections	High C# - Add RH to Lower Pitch
	Middle C# - Add Octave and G Key to raise pitch and match
	tone of registers if playing a "long" note that needs tuned
	 4th line D is going to be insanely sharp; students need to
	correct by dropping the jaw while playing.
	 3rd space C# is easily corrected (intonation and tone) by
	adding some combination of the 3 right hand fingers. Will be
	different on each saxophone/student.
	unitation of each suropholic/student



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	Ledger line A may sound airy and can be corrected by adding
	just the G# key (may help intonation on certain saxophones)
Alternate Fingerings	Chromatic Scale Requires Forked F#, Side C, and Side Bb
	fingerings • Use alternate fingerings to avoid "flipping" between
	neighboring fingerings such as F and F#
	 Appropriate Bb fingerings are also necessary – many articles
	on the topic
	 "Forked" F# - finger F natural and use the right hand ring finger to add the little key directly behind the F and E keys.
	 Bb/A# - use regular fingering 'A' and add the bottom side key.
	OR use Bis Bb which is B and the little key right below B – use
	ONLY index finger to hold both down.
Common	• "1 and 1" Bb is a flute fingering. It is used only in Bb arpeggio
Errors/Misconceptions in Pedagogy	situation on saxophone. In short, Bis Bb should be used for skips and side Bb for stepwise motion (about 85%+ of time)
1 chagogy	 Beginning seated position should be off to the side.
	Embouchure should be consistent throughout all registers.
	For example, it should not move for lower notes.
	 Placing a student with no embouchure on a lower instruments is not going to result in better tone
	 Students do not need (and should not be encouraged) a metal
	mouthpiece for jazz unless studying privately and encourage
	by their private teacher. Many professional jazz musicians
	play on hard rubber.
	 Easy to make a sound right away, but challenging to tone down the "honk." – check reed strength and upgrade mpc if
	honking continues.
Other Specific Issues	Check mouthpiece pitch (Concert A on alto) to diagnose
and/or tricks	embouchure issues including "biting up", air support, etc.
	 While students are playing lower register notes, you may flick the octave key to check embouchure and air (if the student
	stays up the octave after flicking or does not jump up the
	octave there is a need to be addressed)
	• For low notes such as D and C, have the students start on 2 nd
	line G and finger F, E, D, C. They will have to push more air "down" and drop the jaw. "Think Low!"
Quality Equipment	Students should be moved to a reputable brand (i.e.
Recommendations	Vandoren) size 2.5 reeds as soon as possible. Size 2 and below
	do not provide enough resistance for proper embouchure
	development.
	 Premier by Hite mouthpiece is a good intermediate mouthpiece made of plastic rather than hard rubber, but 1/3
	or less of the price. (6-8th grade)
	Vandoren Optimum mouthpiece is recommended for more
	advanced saxophonists and is relatively affordable for the
	quality (there are a number of other great advanced mouthpieces by Selmer as well, but more expensive
	generally)
	 Intermediate Lig. (Rovner "Dark"), Advanced (Optimum or
	Eddie Daniels)
	Selmer S80 C* mouthpiece – runs about \$150 but is completely worth it.
Problem Solving Tips	completely worth it."Warm Air" for lower notes with "Ahh" in throat.
11001cm John High	- warmam for lower notes with Ailli III till vat.



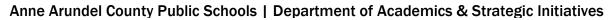
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	 A consistent mouthpiece pitch of Concert A on alto will improve tone dramatically at times Check the reed! Saxes have a common tendency to have leaks around low E or D. That will cause a lot of headache and frustration with not getting those notes out; have it fixed ASAP.
Emergency Repairs	 Keys sticking: use a "high value" clean dollar bill to remove dirt from pads Electrical tape can be used to temporarily replace contact point corks on the instrument and also the octave key "sleeve" Medical tape can be used to temporarily use as a neck cork Octave key – hold octave key up and gently bend slightly towards the neck if octave displacement is happening. OR put tape around cork on neck hole to "seal" the hole.



Trumpet

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Embouchure	 "Set" Corners Firm chin, pointed down No "air" pockets Place mouthpiece ½ on top and ½ on bottom Top lip does all the buzzing so "anchor" the mouthpiece to the bottom lip. Don't allow the head to tilt downwards. Firm corners; more of a pucker, no smile. Think "mmmm" as in, "Mmm, those pancakes are good". 	
Posture/Instrument Position	 Always "edge of chair", feet flat on the floor Torso should be lifted but not strained. Elbows at an "A" angle. Do not droop. Trumpet should almost be parallel to the floor but not marching band style. Head on top of shoulder, trumpet angle should be comfortable, more often than not a slight downward angle. 	
Hand Position	 Form a "C" in the left hand, with fingers closed and thumb opposite of fingers Tilt the "C" 90 degrees away from you. The trumpet rests on the top of the "C". The fingers wrap around the valve casing. Do not allow the thumb to stick up between the lead pipe and the bell pipe. I teach the middle finger is to be used for the 3rd ring slide and my beginners used that slide from day 1. The middle finger is the longest and strongest finger. Get a tennis ball (might be too big for a 5th grade student) or a smaller ball. Have them bounce the ball and catch it. That is the right hand trumpet shape. The thumb goes under the lead pipe, between the 1st and 2nd valves. The 1st, 2nd, and 3rd fingers go on top of their respective valves. Each finger has a "teardrop" (a point) and that "teardrop" is placed on the pearl directly above the valve stem. The pinkie is placed lightly on the C ring, not in it. Left hand thumb around first valve in the saddle if available. Depending on size of hand, first two fingers around third valve casing under bell pipe. Third finger in third valve slide ring. Larger hands, first finger around third valve casing, second finger in third valve slide ring, ring and pinky fingers around the bottom of the third valve casing. Right hand thumb under lead pipe between first and second valves, fingers one, two, and three straight up and down on valves. Pinky goes either on the top of the hook or flies free. 	
Breathing/Breath Support	 Crucial - From Day 1, teach them to inhale a significant amount of air and push a significant amount of air through the horn to the far wall of the room. At the very beginning their embouchure will not be able to withstand the air pressure but once it strengthens, you will hear an amazing sound for a beginner. Firm diaphragm 	
Intonation Tendencies & Corrections	From low F# to about middle C, tends to be flat. Please teach and make them use the 3 rd valve slide on C# and D, as those notes are used quite a bit and are so very sharp.	



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	 Generally speaking, using 1st and 2nd valves (1st line E and 2nd space A) tend to sharp. Once you get above 3rd space D to 4th space E, those notes are flat. For the 4th space D, you can use 1st and 3rd; for Fourth space E, you can use 1st and 2nd. Low D/C# are very sharp and require third valve to be extended (more for the C# than for the D). This is true for alternate fingers that use first and third or first, second, and third valve combinations. Open E (fourth space) is a little flat. Finger first and second valves on occasion. Fourth line D is flat, best to lip it up.
	 Most trumpets tend toward the sharp side from top line F up to high C#. Then it gets a little flat.
Alternate Fingerings	Most common is to substitute third valve for first and second combination.
Common Errors/Misconceptions in Pedagogy	 Don't smile to play high notes. Don't use Vaseline on slides. Don't pull trumpet in to face when playing high notes. Lip trills are not hard. It's all air.
Other Specific Issues and/or tricks	 Have the brass players buzz while the woodwind players play or you play on the piano. Anything to develop an inner ear.
Quality Equipment Recommendations	 Sometime in 7th/8th grade, a student should move from a 7C to a 5C mouthpiece. Sometime in 10th/11th grade, an upper level student should try a 3C. Try to stick with Bach or Yamaha in the early stages of development. Stay on the equivalent of a Bach C cup until you are really good.
Problem Solving Tips	 Check to make sure the valves were put in properly and in the correct case. Check water valve to make sure it is not leaking. Check to make sure a foreign object is not residing in the instrument. If mouthpiece continues to get stuck, then the student, unless the trumpet was dropped, is using too much pressure. Get a French Horn mouthpiece and insert the FH shank into the trumpet shank and to round out the trumpet shank.
Emergency Repairs	Duct tape is wonderful.



French Horn

FI CHICH HOLH		
Posture/Instrument	 "Buzz" is controlled with bottom lip on the inside 1/3 of lip. Positioning should be 2/3 coverage of the top lip and 1/3 of the bottom. The three shapes that form the horn embouchure are "oh"+ "euu"+ "eee" ("eee" is more of a downward motion, not sideways), making sure that the shapes are added consecutively onto one another. Mouthpiece is divided equally on top and bottom lip and not most on one or the other. Vocal "EM" sound will show student how lips should be touching. Vocal "BEE" sound will demonstrate proper tension across lips. Use air to make the buzz and not the muscles in the face. The horn should always be brought to the embouchure, not 	
Position	 the other way around. Ideally, the instrument should be diagonal across the body and resting on the leg for beginners. Advanced players should lift it off of the leg with the right hand as soon as they are able. Student MUST sit up and the lead pipe should be perpendicular to the embouchure to allow airflow to proceed directly into the horn. A common problem is that the student will find a comfortable position to hold the horn which will result in the lead pipe leaving the embouchure at an angle. 	
Hand Position	 The first choice for positioning of the infamous right hand should be at 2:00 on the bell (with the body of the horn designating 12:00) and the outside of the hand fitting the contour of the inside of the bell. Depending on physical characteristics of the player, the hand could also be placed at 10:00 with the <i>inside</i> of the hand against the bell. In both cases, the finger tips should be just at the "seam" of the bell and body and should be adjusted in or out to a happy medium based on pitch variances. The shape of the hand can also be changed to adjust tone quality. A more cupped hand, or closing off of the bell, will result in a darker warmer tone quality while leaving the hand flat, thus the bell more open, will result in a more natural "brassy" tone. Very rarely should the horn be played without the right hand. Only on "bells up" and/or "brassy" directions in music. Left hand is obvious w/thumb on trigger. The right hand is often a difficult concept to both teach and then observe while playing. Right hand should be shaped like a cone and inserted into the bell so the the horn is actually held up by the knuckles in the right hand. The hand must hold up the bell of the horn and the bell should not be resting on the leg. The right hand should temper the tone of the horn but not to the point of stifling it. 	
Breathing/Breath Support	 Horn breathing is consistent with all brass in that dark warm breaths must be taken from the diaphragm. Also, remember that there must always be more air in the player than what is traveling through the horn, keep in mind that the bore of a French Horn is extremely small. 	
	 Exercises should be done to ensure a "direct" air stream is always used. Because the partials are so close on French 	



	1 1 11 11 11 11 11
	horn, improper air direction could result in the wrong note being played.
	 Proper, deep breathing is important to be a successful horn player. With pitch and intonation being a particular challenge for horn due to the instrument playing in a higher overtone series than the other brass instruments. This
	means that there are far smaller spaces between notes and
	finding the correct pitch is a very delicate process. If
	airflow/pressure issues are occurring, the success rate for finding the correct notes declines precipitously.
Intonation Tendencies &	It is important to ensure that both the F and Bb side of a
Corrections	double should be tuned. Students should move to a double horn as soon as they are able to hold one up. If this means
	never playing a single horn then so be it. Low notes on the
	Bb side (trigger side) of the horn tend to be flat, altering the embouchure can fix this or opening the right hand slightly will counter act this. Depending on the horn, anything with
	1-2 combination can be problematic, altering the right hand
	openness can fix these tendencies. See alternate fingerings below and use judgment on the best sounding fix.
	Beginning horn players' intonation problems are too many
	to detail. Remember, since the horn is pitched in F, the range
	demands placed on the horn player are very different than for any other member of the band. The parts that are in a
	comfortable range for the rest of the ensemble are often too
	high or too low for the beginning player to play with comfort
	especially in beginning band as method books are written in unison.
Alternate Fingerings	 Some of the most useful (there are about a million alternate fingerings on French Horn)- First space F can be played 1 or T0. Second line G 0, or T1, Second space F T12 or T0. 4th line D T12, or T3 (this is my favorite). Top line F T0 or T1. High A T12 or T0. The partials are so close above the staff that practically anything can be played with T0, ear training is
	key to ensure correct notes are sounding.
	Beginning students should have a double horn from day 1. Single have a greater and flower transport.
	Single horns are useful as door stops and flower urns and not much more. The double horn not only makes the
	instrument easier to play, the student will not have to adjust
	from single horn fingerings to new double horn fingerings at a later date.
Common Errors/Misconceptions in	 When tuning, both sides of the horn should be taken into consideration. It really <i>does</i> matter where the right is
Pedagogy	placed, the student could be falsely accused of bad
	intonation if they have improper hand placement. Many will deny this fact but yes, Trumpet fingerings work on French
	horn, don't use the trigger.
	The worst thing to do is to give a struggling trumpet player a horn All of the iggues that lead to trumpet troubles are only
	horn. All of the issues that lead to trumpet troubles are only magnified by the horn. i.e. breathing, embouchure,
	intonation/tuning, BRACES.
Other Specific Issues and/or	The lead pipe of the horn should be coated with a light oil
tricks	like Bluejuice every couple months. This ensures a clean
	 horn and also helps with compression and air-flow. A heavy rotor oil should be used on the rotor joints at the
	bottom of the rotor casings. You should see a small gap in
Elementary Beginning and Ad	



	 between the rotor shaft and casing. If a rotor is stuck do not force the key, this will break the string. Rather, grab the rotor on the bottom and twist this, taking all pressure off the string and onto your hand. A light oil (blue juice) should be applied into the valved slides on both sides of the horn. Work the oil into the rotors and dump it out of the third valve slide. Start them young! HS literature demands strong, competent horn sections that are often completely independent voices and not always doubled by the Alto Sax. A horn player cannot be grown overnight and similar a first year oboe, can be at best, a limiting factor in literature selection, and at worst, be a crippling factor in the ensembles performance. (I've also had the best results recruiting potential players from the flute section.)
Quality Equipment Recommendations	 An intermediate Holton or Conn are recommended for high school and middle school students. Yamaha horns are starting to become better quality but usually have smaller bore sizes in the intermediate models; usually cheaper though. A good upgrade for advanced high school students is a professional model Holton or Conn 9D or 8D. The Conn 8D is a bigger horn and the industry standard for most American Hollywood ensembles and many symphony players. Beginning students should be put on a Bach 7 mouthpiece. An upgrade from this would be personal preference on timbre, shape and material. Conn 8D and Holton Farkas models. I recommend brass over nickel for sonority even though brass is more delicate. DO NOT ignore the mouthpiece!!!!!! A quality horn is lost on an old, beat up mouthpiece. I recommend Farkas DC, MDC, or VDC
Problem Solving Tips	 If air is not going through the Horn, a rotor could be out of place. Ensure no strings have slipped and unscrew the valve caps. There should be a "tik" mark on both the rotor and inner valve cap, if they are not aligned, remove the string, align the rotor with the tic mark and restring the horn. An easy way to get the water out of all valve slides is to turn the horn with the keys facing downward; the water is now in the rotors; tilt the horn further so that the third valve slide is on the bottom; the water is now all in the third valve; remove both of the third valve slides, turn and empty. This should have been all the water in the slides.
Emergency Repairs	• If a string seems to "break" it may have just slipped, ie. The loop around the rotor may have "unlooped". Try slipping it back over the rotor for a quick fix. Restringing is not something that can be done during a rehearsal. If a rotor seems stuck with no "easy" fix, unscrew the valve cap from the top of the rotor body and gently tap the bottom screw (the big one) with a rawhide mallet ONCE . One tap will loosen the top cap and allow more space to free up the rotor inside. If you tap too hard or more than once the top cap could fall off, just align the tiks and tap back into place. Also, if the rotor seems too loose, tap the top of the rotor body gently.







Trombone

Posture/Instrument Position Hand Position	 Just keep the cheeks tucked in and let the air do the work. If having issues with the upper range, reduce the mouthpiece pressure and increase the air speed. If having issues with the lower range, open mouth wider and compensate with greater air quantities. Keeping the instrument close to vertical will help, though at a slight downwards tilt. The freer the air can flow the better. Keep back as straight as possible. Three fingered grip with right hand, a common problem is gripping with a fist. For young students reaching the 6th & 7th position is problematic due to short arms, so using their foot to catch the slide is a common technique to remedy this. With the left hand, squeezing many become an issue-
	suggest placing pinky under the slide.
Breathing/Breath Support	 Deep sonorous breathes using as much capacity as possible. Think like a "Darth Vader" in breath. No tension in stomach, but a natural flow of air.
Intonation Tendencies &	Ear must be developed very early.
Corrections	 Since the center of resonance and the center of pitch are identical, singing prior to playing is a good remedy.
Alternate Fingerings	 Higher octave alternates depending on piece can be quite useful, i.e. D with 4th position rather than 1st. The problem is intonation gets a bit wonky in higher registers. In extreme upper range stick to 1st-3rd positions.
Common Errors/Misconceptions in Pedagogy	 Since 6th position is taught much sooner than 5th, find 6th and snap wrist forward to first generate 5th. Use "Hot Cross Buns" starting in 1st position to firmly establish the intonation.
Other Specific Issues and/or tricks	 Getting students to play forte should be encouraged before piano. Lack of sufficient air is the greatest obstacle to overcome, aside from a decent embouchure.
Quality Equipment Recommendations	 Yamaha and Bach A Conn 88H Highly recommend a large bore horn in general.
Problem Solving Tips	 If students are having trouble with lower ranges, have them play tuba for a few minutes then switch back to trombone. On the other hand, with the upper range, a trumpet will work wonders.
Emergency Repairs	 Band-aids and tape work good for the spit valve and small



Percussion

Embouchure	N/A
Posture/Instrument Position	 Should be just about where most people wear their belt—if height adjustable. If not (Marimba, timpani, etc), have student adjust using knees—particularly if it's a challenging section.
Hand Position	No pointer finger.Make sure to use middle, ring, and fourth finger for control.
Breathing/Breath Support	N/A
Intonation Tendencies & Corrections	 Ensure that students do not get lazy and play either too close to timpani center or rim or over cords on mallet instruments.
Alternate Fingerings	N/A
Common Errors/Misconceptions in Pedagogy	 Start reminding beginning snare students to play softly when on practice pads so they don't play hard on a snare. Push students to learn all instruments, don't let some get pigeon holed as the snare player or the mallet player.
Other Specific Issues and/or tricks	 Roll baseevery roll on a snare drum should have a steady rhythm based roll base—usually 16th note or sextuplet based depending on speed (slower speed means sextuplet base).
Quality Equipment Recommendations	 Pearl/Adams, Yamaha, Ludwig/Musser are the big names. However, there are many quality smaller brands.
Problem Solving Tips	 Make sure percussionists are always aware of their rhythms and are listening. They must look up. If there is a rhythm they are having trouble with, have them count it out loud. "If you can say it you can play it". Percussion can also mouth or even count rhythms to themselves while playing.
Emergency Repairs	 For the most part, just getting it good enough to get through a performance is fairly easy. Many screws and bolts that get lost from frames or instruments can be replaced for a fraction of the cost from the manufacturer if you take one that you need to match to a hardware store. If a snare strainer or butt goes bad, tape can SOMETIMES be used if needed to keep snares on a drum to get through a performance at the last minute—make sure it is a tape that doesn't leave residue. Always make sure to check the sound of a repaired instrument from a distance to make sure it sounds good.



