

# AFAAF Test Material Manual

There are 90 audio files in the downloadable package from [www.harlememphis.org](http://www.harlememphis.org). If the test administration software is used (purchased separately), all of the audio files need to be copied to the folder "AFAAFSP" in the AFAAF software directory after installation. The files are listed as the following.

## Audio Files

### Calibration signals

1 kHz calibration tone:	REFCALT.WAV
1 kHz narrow band noise:	REFCALN.WAV
Unmodulated broad band noise:	AFAAFSPN.WAV

### Masking noises

Unmodulated broad band noise:	AFAAFSPN.WAV
Broad band noise modulated by a 2-talker babble:	2 TALKER MODULATED. WAV
Broad band noise modulated by a 6-talker babble:	6 TALKER MODULATED. WAV

### Speech signals (Target words are bolded)

#### Practice words

what <b>rot</b> yacht lot	afaafsp1.wav
hold <b>old</b> cold gold	afaafsp2.wav
lest nest rest <b>messed</b>	afaafsp3.wav
<b>stone</b> own tone sown	afaafsp4.wav
stream scream <b>scheme</b> steam	afaafsp5.wav

#### Test words

mail <b>bail</b> nail dale	afaafsp01.wav
<b>bin</b> pin din tin	afaafsp02.wav
boast ghost coast <b>post</b>	afaafsp03.wav
dab cab <b>gab</b> tab	afaafsp04.wav
man <b>van</b> nan than	afaafsp05.wav
<b>taught</b> fought thought port	afaafsp06.wav
seal <b>veal</b> feel zeal	afaafsp07.wav
keen <b>teen</b> sheen seen	afaafsp08.wav
<b>mash</b> mass match mats	afaafsp09.wav
rich <b>ridge</b> ritz rids	afaafsp10.wav
some <b>sud</b> sun sub	afaafsp11.wav
rib <b>rick</b> rip rig	afaafsp12.wav
cob cod <b>cop</b> cot	afaafsp13.wav
bag back <b>bat</b> bad	afaafsp14.wav

get wet **bet** yet  
 mix milks mick **milk**  
 rose **rove** robe rode  
 lands lads lad **land**  
 bang **bad** bag ban  
 ham high hang **how**  
 bang **ban** bad bag  
 lands lad **lads** land  
 mail **nail** dale bail  
**sun** sub sud some  
 mix milks **mick** milk  
**wet** bet get yet  
**rig** rip rick rib  
 cot **cod** cob cop  
 ridge ritz rich **rids**  
**pin** bin din tin  
 sheen **keen** teen seen  
 post **ghost** boast coast  
 hang **high** how ham  
 bad **bag** bat back  
**seal** zeal veal feel  
 match mash mats **mass**  
 gab **dab** tab cab  
**rose** rove rode robe  
 port **thought** fought taught  
**than** van nan man  
 din pin **tin** bin  
**tab** dab cab gab  
**lad** lads land lands  
 how **hang** ham high  
 seen keen **sheen** teen  
 bat **bad** back bag  
 rip rick **rib** rig  
 boast ghost **coast** post  
 rids rich ridge **ritz**  
 nan than van **man**  
 bet yet **get** wet  
 bad bag ban **bang**  
**mix** milks milk mick  
 fought **port** taught thought  
 cot cop **cod** cod  
 some **sub** sud sun  
 match mash mass **mats**  
 zeal seal veal **feel**  
 dale **mail** nail bail  
 rove robe rose **rode**

afaafsp15.wav  
 afaafsp16.wav  
 afaafsp17.wav  
 afaafsp18.wav  
 afaafsp19.wav  
 afaafsp20.wav  
 afaafsp21.wav  
 afaafsp22.wav  
 afaafsp23.wav  
 afaafsp24.wav  
 afaafsp25.wav  
 afaafsp26.wav  
 afaafsp27.wav  
 afaafsp28.wav  
 afaafsp29.wav  
 afaafsp30.wav  
 afaafsp31.wav  
 afaafsp32.wav  
 afaafsp33.wav  
 afaafsp34.wav  
 afaafsp35.wav  
 afaafsp36.wav  
 afaafsp37.wav  
 afaafsp38.wav  
 afaafsp39.wav  
 afaafsp40.wav  
 afaafsp41.wav  
 afaafsp42.wav  
 afaafsp43.wav  
 afaafsp44.wav  
 afaafsp45.wav  
 afaafsp46.wav  
 afaafsp47.wav  
 afaafsp48.wav  
 afaafsp49.wav  
 afaafsp50.wav  
 afaafsp51.wav  
 afaafsp52.wav  
 afaafsp53.wav  
 afaafsp54.wav  
 afaafsp55.wav  
 afaafsp56.wav  
 afaafsp57.wav  
 afaafsp58.wav  
 afaafsp59.wav  
 afaafsp60.wav

nail bail **dale** mail  
 tin **din** pin bin  
 bag **back** bad bat  
 coast ghost **boast** post  
 man than van **nan**  
**fought** taught port thought  
 high hang how **ham**  
 teen **seen** keen sheen  
**cot** cob cod cop  
**cab** tab dab gab  
 bang bad **bag** ban  
 wet bet **yet** get  
 lad land **lands** lads  
 mass **match** mats mash  
 sub sun sud **some**  
 mick **milks** mix milk  
**zeal** seal feel veal  
 rib rick rig **rip**  
 rode rose rove **robe**  
 ridge **rich** rids ritz

afaafsp61.wav  
 afaafsp62.wav  
 afaafsp63.wav  
 afaafsp64.wav  
 afaafsp65.wav  
 afaafsp66.wav  
 afaafsp67.wav  
 afaafsp68.wav  
 afaafsp69.wav  
 afaafsp70.wav  
 afaafsp71.wav  
 afaafsp72.wav  
 afaafsp73.wav  
 afaafsp74.wav  
 afaafsp75.wav  
 afaafsp76.wav  
 afaafsp77.wav  
 afaafsp78.wav  
 afaafsp79.wav  
 afaafsp80.wav

Item #	Word #	Text				Item #	Word #	Text			
1	52	bad	bag	ban	<b>bang</b>	11	07	seal	<b>veal</b>	feel	zeal
	71	bang	bad	<b>bag</b>	ban		35	<b>seal</b>	zeal	veal	feel
	19	bang	<b>bad</b>	bag	ban		77	<b>zeal</b>	seal	feel	veal
	21	bang	<b>ban</b>	bad	bag		58	zeal	seal	veal	<b>feel</b>
2	34	bad	<b>bag</b>	bat	back	12	54	fought	<b>port</b>	taught	thought
	63	bag	<b>back</b>	bad	bat		66	<b>fought</b>	taught	port	thought
	14	bag	back	<b>bat</b>	bad		39	port	<b>thought</b>	fought	taught
	46	bat	<b>bad</b>	back	bag		06	<b>taught</b>	fought	thought	port
3	13	cob	cod	<b>cop</b>	cot	13	08	keen	<b>teen</b>	sheen	seen
	69	<b>cot</b>	cob	cod	cop		45	seen	keen	<b>sheen</b>	teen
	28	cot	<b>cod</b>	cob	cop		31	sheen	<b>keen</b>	teen	seen
	55	cot	cop	<b>cob</b>	cod		68	teen	<b>seen</b>	keen	sheen
4	70	<b>cab</b>	tab	dab	gab	14	79	rode	rose	rove	<b>robe</b>
	04	dab	cab	<b>gab</b>	tab		17	rose	<b>rove</b>	robe	rode
	37	gab	<b>dab</b>	tab	cab		38	<b>rose</b>	rove	rode	robe
	42	<b>tab</b>	dab	cab	gab		60	rove	robe	rose	<b>rode</b>
5	48	boast	ghost	<b>coast</b>	post	15	56	some	<b>sub</b>	sud	sun
	03	boast	ghost	coast	<b>post</b>		11	some	<b>sud</b>	sun	sub
	64	coast	ghost	<b>boast</b>	post		75	sub	sun	sud	<b>some</b>
	32	post	<b>ghost</b>	boast	coast		24	<b>sun</b>	sub	sud	some
6	20	ham	high	hang	<b>how</b>	16	59	dale	<b>mail</b>	nail	bail
	33	hang	<b>high</b>	how	ham		01	mail	<b>bail</b>	nail	dale
	67	high	hang	how	<b>ham</b>		23	mail	<b>nail</b>	dale	bail
	44	how	<b>hang</b>	ham	high		61	nail	bail	<b>dale</b>	mail
7	43	<b>lad</b>	lads	land	lands	17	78	rib	rick	rig	<b>rip</b>
	73	lad	land	<b>lands</b>	lads		12	rib	<b>rick</b>	rip	rig
	22	lands	lad	<b>lads</b>	land		27	<b>rig</b>	rip	rick	rib
	18	lands	lads	lad	<b>land</b>		47	rip	rick	<b>rib</b>	rig
8	09	<b>mash</b>	mass	match	mats	18	51	bet	yet	<b>get</b>	wet
	74	mass	<b>match</b>	mats	mash		15	get	wet	<b>bet</b>	yet
	57	match	mash	mass	<b>mats</b>		26	<b>wet</b>	bet	get	yet
	36	match	mash	mats	<b>mass</b>		72	wet	bet	<b>yet</b>	get
9	76	mick	<b>milks</b>	mix	milk	19	02	<b>bin</b>	pin	din	tin
	16	mix	milks	mick	<b>milk</b>		41	din	pin	<b>tin</b>	bin
	25	mix	milks	<b>mick</b>	milk		30	<b>pin</b>	bin	din	tin
	53	<b>mix</b>	milks	milk	mick		62	tin	<b>din</b>	pin	bin
10	10	rich	<b>ridge</b>	ritz	rids	20	65	man	than	van	<b>nan</b>
	80	ridge	<b>rich</b>	rids	ritz		05	man	<b>van</b>	nan	than
	29	ridge	ritz	rich	<b>rids</b>		50	nan	than	van	<b>man</b>
	49	rids	rich	ridge	<b>ritz</b>		40	<b>than</b>	van	nan	man

\* The shaded vocabularies (There are 9) are those vary the **initial consonant**. The rest of the vocabularies (There are 11) vary the **final consonant**.

## Word orders

The five predetermined randomizations are listed as word orders 1 to 5.

### Word order 1

1. mail <b>bail</b> nail dale	afaafsp01.wav
2. <b>bin</b> pin din tin	afaafsp02.wav
3. boast ghost coast <b>post</b>	afaafsp03.wav
4. dab cab <b>gab</b> tab	afaafsp04.wav
5. man <b>van</b> nan than	afaafsp05.wav
6. <b>taught</b> fought thought port	afaafsp06.wav
7. seal <b>veal</b> feel zeal	afaafsp07.wav
8. keen <b>teen</b> sheen seen	afaafsp08.wav
9. <b>mash</b> mass match mats	afaafsp09.wav
10. rich <b>ridge</b> ritz rids	afaafsp10.wav
11. some <b>sud</b> sun sub	afaafsp11.wav
12. rib <b>rick</b> rip rig	afaafsp12.wav
13. cob cod <b>cop</b> cot	afaafsp13.wav
14. bag back <b>bat</b> bad	afaafsp14.wav
15. get wet <b>bet</b> yet	afaafsp15.wav
16. mix milks mick <b>milk</b>	afaafsp16.wav
17. rose <b>rove</b> robe rode	afaafsp17.wav
18. lands lads lad <b>land</b>	afaafsp18.wav
19. bang <b>bad</b> bag ban	afaafsp19.wav
20. ham high hang <b>how</b>	afaafsp20.wav
21. bang <b>ban</b> bad bag	afaafsp21.wav
22. lands lad <b>lads</b> land	afaafsp22.wav
23. mail <b>nail</b> dale bail	afaafsp23.wav
24. <b>sun</b> sub sud some	afaafsp24.wav
25. mix milks <b>mick</b> milk	afaafsp25.wav
26. <b>wet</b> bet get yet	afaafsp26.wav
27. <b>rig</b> rip rick rib	afaafsp27.wav
28. cot <b>cod</b> cob cop	afaafsp28.wav
29. ridge ritz rich <b>rids</b>	afaafsp29.wav
30. <b>pin</b> bin din tin	afaafsp30.wav
31. sheen <b>keen</b> teen seen	afaafsp31.wav
32. post <b>ghost</b> boast coast	afaafsp32.wav
33. hang <b>high</b> how ham	afaafsp33.wav
34. bad <b>bag</b> bat back	afaafsp34.wav
35. <b>seal</b> zeal veal feel	afaafsp35.wav
36. match mash mats <b>mass</b>	afaafsp36.wav
37. gab <b>dab</b> tab cab	afaafsp37.wav
38. <b>rose</b> rove rode robe	afaafsp38.wav
39. port <b>thought</b> fought taught	afaafsp39.wav
40. <b>than</b> van nan man	afaafsp40.wav

41.din	pin	<b>tin</b>	bin	afaafsp41.wav
42. <b>tab</b>	dab	cab	gab	afaafsp42.wav
43. <b>lad</b>	lads	land	lands	afaafsp43.wav
44.how	<b>hang</b>	ham	high	afaafsp44.wav
45.seen	keen	<b>sheen</b>	teen	afaafsp45.wav
46.bat	<b>bad</b>	back	bag	afaafsp46.wav
47.rip	rick	<b>rib</b>	rig	afaafsp47.wav
48.boast	ghost	<b>coast</b>	post	afaafsp48.wav
49.rids	rich	ridge	<b>ritz</b>	afaafsp49.wav
50.nan	than	van	<b>man</b>	afaafsp50.wav
51.bet	yet	<b>get</b>	wet	afaafsp51.wav
52.bad	bag	ban	<b>bang</b>	afaafsp52.wav
53. <b>mix</b>	milks	milk	mick	afaafsp53.wav
54.fought	<b>port</b>	taught	thought	afaafsp54.wav
55.cot	cop	<b>cob</b>	cod	afaafsp55.wav
56.some	<b>sub</b>	sud	sun	afaafsp56.wav
57.match	mash	mass	<b>mats</b>	afaafsp57.wav
58.zeal	seal	veal	<b>feel</b>	afaafsp58.wav
59.dale	<b>mail</b>	nail	bail	afaafsp59.wav
60.rove	robe	rose	<b>rode</b>	afaafsp60.wav
61.nail	bail	<b>dale</b>	mail	afaafsp61.wav
62.tin	<b>din</b>	pin	bin	afaafsp62.wav
63.bag	<b>back</b>	bad	bat	afaafsp63.wav
64.coast	ghost	<b>boast</b>	post	afaafsp64.wav
65.man	than	van	<b>nan</b>	afaafsp65.wav
66. <b>fought</b>	taught	port	thought	afaafsp66.wav
67.high	hang	how	<b>ham</b>	afaafsp67.wav
68.teen	<b>seen</b>	keen	sheen	afaafsp68.wav
69. <b>cot</b>	cob	cod	cop	afaafsp69.wav
70. <b>cab</b>	tab	dab	gab	afaafsp70.wav
71.bang	bad	<b>bag</b>	ban	afaafsp71.wav
72.wet	bet	<b>yet</b>	get	afaafsp72.wav
73.lad	land	<b>lands</b>	lads	afaafsp73.wav
74.mass	<b>match</b>	mats	mash	afaafsp74.wav
75.sub	sun	sud	<b>some</b>	afaafsp75.wav
76.mick	<b>milks</b>	mix	milk	afaafsp76.wav
77. <b>zeal</b>	seal	feel	veal	afaafsp77.wav
78.rib	rick	rig	<b>rip</b>	afaafsp78.wav
79.rode	rose	rove	<b>robe</b>	afaafsp79.wav
80.ridge	<b>rich</b>	rids	ritz	afaafsp80.wav

## Word order 2

1. man <b>van</b> nan than	afaafsp05.wav
2. dab cab <b>gab</b> tab	afaafsp04.wav
3. rich <b>ridge</b> ritz rids	afaafsp10.wav
4. bang <b>bad</b> bag ban	afaafsp19.wav
5. ham high hang <b>how</b>	afaafsp20.wav
6. mail <b>bail</b> nail dale	afaafsp01.wav
7. some <b>sud</b> sun sub	afaafsp11.wav
8. boast ghost coast <b>post</b>	afaafsp03.wav
9. rib <b>rick</b> rip rig	afaafsp12.wav
10. cob cod <b>cop</b> cot	afaafsp13.wav
11. <b>taught</b> fought thought port	afaafsp06.wav
12. keen <b>teen</b> sheen seen	afaafsp08.wav
13. rose <b>rove</b> robe rode	afaafsp17.wav
14. get wet <b>bet</b> yet	afaafsp15.wav
15. bag back <b>bat</b> bad	afaafsp14.wav
16. <b>mash</b> mass match mats	afaafsp09.wav
17. seal <b>veal</b> feel zeal	afaafsp07.wav
18. <b>bin</b> pin din tin	afaafsp02.wav
19. mix milks mick <b>milk</b>	afaafsp16.wav
20. lands lads lad <b>land</b>	afaafsp18.wav
21. boast ghost <b>coast</b> post	afaafsp48.wav
22. din pin <b>tin</b> bin	afaafsp41.wav
23. cot cop <b>cob</b> cod	afaafsp55.wav
24. bad bag ban <b>bang</b>	afaafsp52.wav
25. <b>tab</b> dab cab gab	afaafsp42.wav
26. nan than van <b>man</b>	afaafsp50.wav
27. how <b>hang</b> ham high	afaafsp44.wav
28. <b>mix</b> milks milk mick	afaafsp53.wav
29. rids rich ridge <b>ritz</b>	afaafsp49.wav
30. rove robe rose <b>rode</b>	afaafsp60.wav
31. <b>lad</b> lads land lands	afaafsp43.wav
32. dale <b>mail</b> nail bail	afaafsp59.wav
33. fought <b>port</b> taught thought	afaafsp54.wav
34. rip rick <b>rib</b> rig	afaafsp47.wav
35. seen keen <b>sheen</b> teen	afaafsp45.wav
36. zeal seal veal <b>feel</b>	afaafsp58.wav
37. bat <b>bad</b> back bag	afaafsp46.wav
38. bet yet <b>get</b> wet	afaafsp51.wav
39. some <b>sub</b> sud sun	afaafsp56.wav
40. match mash mass <b>mats</b>	afaafsp57.wav
41. coast ghost <b>boast</b> post	afaafsp64.wav
42. sub sun sud <b>some</b>	afaafsp75.wav
43. man than van <b>nan</b>	afaafsp65.wav
44. <b>cab</b> tab dab gab	afaafsp70.wav

45. <b>fought</b>	taught	port	thought	afaafsp66.wav
46. bang	bad	<b>bag</b>	ban	afaafsp71.wav
47. bag	<b>back</b>	bad	bat	afaafsp63.wav
48. tin	<b>din</b>	pin	bin	afaafsp62.wav
49. mick	<b>milks</b>	mix	milk	afaafsp76.wav
50. <b>cot</b>	cob	cod	cop	afaafsp69.wav
51. rib	rick	rig	<b>rip</b>	afaafsp78.wav
52. mass	<b>match</b>	mats	mash	afaafsp74.wav
53. <b>zeal</b>	seal	feel	veal	afaafsp77.wav
54. teen	<b>seen</b>	keen	sheen	afaafsp68.wav
55. wet	bet	<b>yet</b>	get	afaafsp72.wav
56. lad	land	<b>lands</b>	lads	afaafsp73.wav
57. rode	rose	rove	<b>robe</b>	afaafsp79.wav
58. high	hang	how	<b>ham</b>	afaafsp67.wav
59. ridge	<b>rich</b>	rids	ritz	afaafsp80.wav
60. nail	bail	<b>dale</b>	mail	afaafsp61.wav
61. mix	milks	<b>mick</b>	milk	afaafsp25.wav
62. gab	<b>dab</b>	tab	cab	afaafsp37.wav
63. <b>rig</b>	rip	rick	rib	afaafsp27.wav
64. lands	lad	<b>lads</b>	land	afaafsp22.wav
65. <b>rose</b>	rove	rode	robe	afaafsp38.wav
66. <b>sun</b>	sub	sud	some	afaafsp24.wav
67. sheen	<b>keen</b>	teen	seen	afaafsp31.wav
68. match	mash	mats	<b>mass</b>	afaafsp36.wav
69. cot	<b>cod</b>	cob	cop	afaafsp28.wav
70. mail	<b>nail</b>	dale	bail	afaafsp23.wav
71. bang	<b>ban</b>	bad	bag	afaafsp21.wav
72. hang	<b>high</b>	how	ham	afaafsp33.wav
73. <b>than</b>	van	nan	man	afaafsp40.wav
74. post	<b>ghost</b>	boast	coast	afaafsp32.wav
75. port	<b>thought</b>	fought	taught	afaafsp39.wav
76. <b>seal</b>	zeal	veal	feel	afaafsp35.wav
77. ridge	ritz	rich	<b>rids</b>	afaafsp29.wav
78. bad	<b>bag</b>	bat	back	afaafsp34.wav
79. <b>wet</b>	bet	get	yet	afaafsp26.wav
80. <b>pin</b>	bin	din	tin	afaafsp30.wav



### Word order 3

1. rib	rick	rig	<b>rip</b>	afaafsp78.wav
2. <b>zeal</b>	seal	feel	veal	afaafsp77.wav
3. <b>cot</b>	cob	cod	cop	afaafsp69.wav
4. teen	<b>seen</b>	keen	sheen	afaafsp68.wav
5. <b>cab</b>	tab	dab	gab	afaafsp70.wav
6. wet	bet	<b>yet</b>	get	afaafsp72.wav
7. bang	bad	<b>bag</b>	ban	afaafsp71.wav
8. man	than	van	<b>nan</b>	afaafsp65.wav
9. mick	<b>milks</b>	mix	milk	afaafsp76.wav
10. high	hang	how	<b>ham</b>	afaafsp67.wav
11. ridge	<b>rich</b>	rids	ritz	afaafsp80.wav
12. sub	sun	sud	<b>some</b>	afaafsp75.wav
13. lad	land	<b>lands</b>	lads	afaafsp73.wav
14. <b>fought</b>	taught	port	thought	afaafsp66.wav
15. mass	<b>match</b>	mats	mash	afaafsp74.wav
16. nail	bail	<b>dale</b>	mail	afaafsp61.wav
17. rode	rose	rove	<b>robe</b>	afaafsp79.wav
18. coast	ghost	<b>boast</b>	post	afaafsp64.wav
19. bag	<b>back</b>	bad	bat	afaafsp63.wav
20. tin	<b>din</b>	pin	bin	afaafsp62.wav
21. <b>tab</b>	dab	cab	gab	afaafsp42.wav
22. seen	keen	<b>sheen</b>	teen	afaafsp45.wav
23. rids	rich	ridge	<b>ritz</b>	afaafsp49.wav
24. boast	ghost	<b>coast</b>	post	afaafsp48.wav
25. nan	than	van	<b>man</b>	afaafsp50.wav
26. bad	bag	ban	<b>bang</b>	afaafsp52.wav
27. bet	yet	<b>get</b>	wet	afaafsp51.wav
28. zeal	seal	veal	<b>feel</b>	afaafsp58.wav
29. <b>lad</b>	lads	land	lands	afaafsp43.wav
30. rove	robe	rose	<b>rode</b>	afaafsp60.wav
31. rip	rick	<b>rib</b>	rig	afaafsp47.wav
32. match	mash	mass	<b>mats</b>	afaafsp57.wav
33. how	<b>hang</b>	ham	high	afaafsp44.wav
34. din	pin	<b>tin</b>	bin	afaafsp41.wav
35. bat	<b>bad</b>	back	bag	afaafsp46.wav
36. cot	cop	<b>cob</b>	cod	afaafsp55.wav
37. <b>mix</b>	milks	milk	mick	afaafsp53.wav
38. dale	<b>mail</b>	nail	bail	afaafsp59.wav
39. fought	<b>port</b>	taught	thought	afaafsp54.wav
40. some	<b>sub</b>	sud	sun	afaafsp56.wav
41. mix	milks	<b>mick</b>	milk	afaafsp25.wav
42. <b>sun</b>	sub	sud	some	afaafsp24.wav
43. <b>rig</b>	rip	rick	rib	afaafsp27.wav
44. <b>wet</b>	bet	get	yet	afaafsp26.wav

45.bang <b>ban</b>	bad bag	afaafsp21.wav
46.match mash mats <b>mass</b>		afaafsp36.wav
47.port <b>thought</b>	fought taught	afaafsp39.wav
48.mail <b>nail</b>	dale bail	afaafsp23.wav
49.cot <b>cod</b>	cob cop	afaafsp28.wav
50.lands lad <b>lads</b>	land	afaafsp22.wav
51. <b>pin</b>	bin din tin	afaafsp30.wav
52. <b>than</b>	van nan man	afaafsp40.wav
53.gab <b>dab</b>	tab cab	afaafsp37.wav
54. <b>seal</b>	zeal veal feel	afaafsp35.wav
55.sheen <b>keen</b>	teen seen	afaafsp31.wav
56.bad <b>bag</b>	bat back	afaafsp34.wav
57.ridge ritz rich <b>rids</b>		afaafsp29.wav
58.post <b>ghost</b>	boast coast	afaafsp32.wav
59. <b>rose</b>	rove robe	afaafsp38.wav
60.hang <b>high</b>	how ham	afaafsp33.wav
61.bag back <b>bat</b>	bad	afaafsp14.wav
62.boast ghost coast <b>post</b>		afaafsp03.wav
63.seal <b>veal</b>	feel zeal	afaafsp07.wav
64.dab cab <b>gab</b>	tab	afaafsp04.wav
65.man <b>van</b>	nan than	afaafsp05.wav
66.keen <b>teen</b>	sheen seen	afaafsp08.wav
67.rose <b>rove</b>	robe rode	afaafsp17.wav
68. <b>bin</b>	pin din tin	afaafsp02.wav
69.lands lads lad <b>land</b>		afaafsp18.wav
70.get wet <b>bet</b>	yet	afaafsp15.wav
71. <b>taught</b>	fought thought port	afaafsp06.wav
72.cob cod <b>cop</b>	cot	afaafsp13.wav
73.mix milks mick <b>milk</b>		afaafsp16.wav
74.rich <b>ridge</b>	ritz rids	afaafsp10.wav
75. <b>mash</b>	mass match mats	afaafsp09.wav
76.mail <b>bail</b>	nail dale	afaafsp01.wav
77.some <b>sud</b>	sun sub	afaafsp11.wav
78.ham high hang <b>how</b>		afaafsp20.wav
79.rib <b>rick</b>	rip rig	afaafsp12.wav
80.bang <b>bad</b>	bag ban	afaafsp19.wav

## Word order 4

1. zeal seal veal <b>feel</b>	afaafsp58.wav
2. <b>lad</b> lads land lands	afaafsp43.wav
3. seen keen =sheen teen	afaafsp45.wav
4. rids rich ridge <b>ritz</b>	afaafsp49.wav
5. din pin <b>tin</b> bin	afaafsp41.wav
6. <b>mix</b> milks milk mick	afaafsp53.wav
7. rip rick <b>rib</b> rig	afaafsp47.wav
8. some <b>sub</b> sud sun	afaafsp56.wav
9. how <b>hang</b> ham high	afaafsp44.wav
10. bat <b>bad</b> back bag	afaafsp46.wav
11. boast ghost <b>coast</b> post	afaafsp48.wav
12. rove robe rose <b>rode</b>	afaafsp60.wav
13. bad bag ban <b>bang</b>	afaafsp52.wav
14. fought <b>port</b> taught thought	afaafsp54.wav
15. <b>tab</b> dab cab gab	afaafsp42.wav
16. cot cop <b>cob</b> cod	afaafsp55.wav
17. nan than van <b>man</b>	afaafsp50.wav
18. match mash mass <b>mats</b>	afaafsp57.wav
19. bet yet <b>get</b> wet	afaafsp51.wav
20. dale <b>mail</b> nail bail	afaafsp59.wav
21. <b>zeal</b> seal feel veal	afaafsp77.wav
22. bag <b>back</b> bad bat	afaafsp63.wav
23. rode rose rove <b>robe</b>	afaafsp79.wav
24. nail bail <b>dale</b> mail	afaafsp61.wav
25. man than van <b>nan</b>	afaafsp65.wav
26. <b>fought</b> taught port thought	afaafsp66.wav
27. wet bet <b>yet</b> get	afaafsp72.wav
28. mick <b>milks</b> mix milk	afaafsp76.wav
29. ridge <b>rich</b> rids ritz	afaafsp80.wav
30. bang bad <b>bag</b> ban	afaafsp71.wav
31. tin <b>din</b> pin bin	afaafsp62.wav
32. <b>cab</b> tab dab gab	afaafsp70.wav
33. sub sun sud <b>some</b>	afaafsp75.wav
34. mass <b>match</b> mats mash	afaafsp74.wav
35. lad land <b>lands</b> lads	afaafsp73.wav
36. <b>cot</b> cob cod cop	afaafsp69.wav
37. coast ghost <b>boast</b> post	afaafsp64.wav
38. high hang how <b>ham</b>	afaafsp67.wav
39. rib rick rig <b>rip</b>	afaafsp78.wav
40. teen <b>seen</b> keen sheen	afaafsp68.wav
41. mix milks mick <b>milk</b>	afaafsp16.wav
42. get wet <b>bet</b> yet	afaafsp15.wav
43. rose <b>rove</b> robe rode	afaafsp17.wav
44. bang <b>bad</b> bag ban	afaafsp19.wav

45.lands lads lad <b>land</b>	afaafsp18.wav
46. <b>mash</b> mass match mats	afaafsp09.wav
47.ham high hang <b>how</b>	afaafsp20.wav
48.boast ghost coast <b>post</b>	afaafsp03.wav
49.mail <b>bail</b> nail dale	afaafsp01.wav
50.rib <b>rick</b> rip rig	afaafsp12.wav
51.seal <b>veal</b> feel zeal	afaafsp07.wav
52.some <b>sud</b> sun sub	afaafsp11.wav
53. <b>bin</b> pin din tin	afaafsp02.wav
54.bag back <b>bat</b> bad	afaafsp14.wav
55.keen <b>teen</b> sheen seen	afaafsp08.wav
56.cob cod <b>cop</b> cot	afaafsp13.wav
57.dab cab <b>gab</b> tab	afaafsp04.wav
58.man <b>van</b> nan than	afaafsp05.wav
59. <b>taught</b> fought thought port	afaafsp06.wav
60.rich <b>ridge</b> ritz rids	afaafsp10.wav
61. <b>pin</b> bin din tin	afaafsp30.wav
62.mix milks <b>mick</b> milk	afaafsp25.wav
63.mail <b>nail</b> dale bail	afaafsp23.wav
64.gab <b>dab</b> tab cab	afaafsp37.wav
65. <b>rig</b> rip rick rib	afaafsp27.wav
66.port <b>thought</b> fought taught	afaafsp39.wav
67.match mash mats <b>mass</b>	afaafsp36.wav
68. <b>wet</b> bet get yet	afaafsp26.wav
69.lands lad <b>lads</b> land	afaafsp22.wav
70.bang <b>ban</b> bad bag	afaafsp21.wav
71.cot <b>cod</b> cob cop	afaafsp28.wav
72.bad <b>bag</b> bat back	afaafsp34.wav
73. <b>sun</b> sub sud some	afaafsp24.wav
74.sheen <b>keen</b> teen seen	afaafsp31.wav
75. <b>rose</b> rove rode robe	afaafsp38.wav
76. <b>seal</b> zeal veal feel	afaafsp35.wav
77.ridge ritz rich <b>rids</b>	afaafsp29.wav
78.hang <b>high</b> how ham	afaafsp33.wav
79.post <b>ghost</b> boast coast	afaafsp32.wav
80. <b>than</b> van nan man	afaafsp40.wav

## Word order 5

1. ridge ritz rich <b>rids</b>	afaafsp29.wav
2. port <b>thought</b> fought taught	afaafsp39.wav
3. mix milks <b>mick</b> milk	afaafsp25.wav
4. <b>sun</b> sub sud some	afaafsp24.wav
5. match mash mats <b>mass</b>	afaafsp36.wav
6. post <b>ghost</b> boast coast	afaafsp32.wav
7. <b>pin</b> bin din tin	afaafsp30.wav
8. bang <b>ban</b> bad bag	afaafsp21.wav
9. sheen <b>keen</b> teen seen	afaafsp31.wav
10. <b>rose</b> rove robe	afaafsp38.wav
11. <b>wet</b> bet get yet	afaafsp26.wav
12. <b>than</b> van nan man	afaafsp40.wav
13. mail <b>nail</b> dale bail	afaafsp23.wav
14. <b>seal</b> zeal veal feel	afaafsp35.wav
15. lands lad <b>lads</b> land	afaafsp22.wav
16. gab <b>dab</b> tab cab	afaafsp37.wav
17. <b>rig</b> rip rick rib	afaafsp27.wav
18. cot <b>cod</b> cob cop	afaafsp28.wav
19. hang <b>high</b> how ham	afaafsp33.wav
20. bad <b>bag</b> bat back	afaafsp34.wav
21. cob cod <b>cop</b> cot	afaafsp13.wav
22. dab cab <b>gab</b> tab	afaafsp04.wav
23. keen <b>teen</b> sheen seen	afaafsp08.wav
24. seal <b>veal</b> feel zeal	afaafsp07.wav
25. boast ghost coast <b>post</b>	afaafsp03.wav
26. <b>mash</b> mass match mats	afaafsp09.wav
27. rich <b>ridge</b> ritz rids	afaafsp10.wav
28. ham high hang <b>how</b>	afaafsp20.wav
29. some <b>sud</b> sun sub	afaafsp11.wav
30. <b>taught</b> fought thought port	afaafsp06.wav
31. rib <b>rick</b> rip rig	afaafsp12.wav
32. <b>bin</b> pin din tin	afaafsp02.wav
33. bag back <b>bat</b> bad	afaafsp14.wav
34. lands lads lad <b>land</b>	afaafsp18.wav
35. mail <b>bail</b> nail dale	afaafsp01.wav
36. bang <b>bad</b> bag ban	afaafsp19.wav
37. get wet <b>bet</b> yet	afaafsp15.wav
38. mix milks mick <b>milk</b>	afaafsp16.wav
39. man <b>van</b> nan than	afaafsp05.wav
40. rose <b>rove</b> robe rode	afaafsp17.wav
41. seen keen <b>sheen</b> teen	afaafsp45.wav
42. <b>mix</b> milks milk mick	afaafsp53.wav
43. rove robe rose <b>rode</b>	afaafsp60.wav
44. dale <b>mail</b> nail bail	afaafsp59.wav

45.fought <b>port</b>	taught	thought	afaafsp54.wav	
46.bad	bag	ban <b>bang</b>	afaafsp52.wav	
47.cot	cop	<b>cob</b>	cod	afaafsp55.wav
48. <b>tab</b>	dab	cab	gab	afaafsp42.wav
49.match	mash	mass	<b>mats</b>	afaafsp57.wav
50.how	<b>hang</b>	ham	high	afaafsp44.wav
51.bat	<b>bad</b>	back	bag	afaafsp46.wav
52.rids	rich	ridge	<b>ritz</b>	afaafsp49.wav
53.zeal	seal	veal	<b>feel</b>	afaafsp58.wav
54.boast	ghost	<b>coast</b>	post	afaafsp48.wav
55.rip	rick	<b>rib</b>	rig	afaafsp47.wav
56.bet	yet	<b>get</b>	wet	afaafsp51.wav
57.din	pin	<b>tin</b>	bin	afaafsp41.wav
58.some	<b>sub</b>	sud	sun	afaafsp56.wav
59. <b>lad</b>	lads	land	lands	afaafsp43.wav
60.nan	than	van	<b>man</b>	afaafsp50.wav
61.nail	bail	<b>dale</b>	mail	afaafsp61.wav
62.ridge	<b>rich</b>	rids	ritz	afaafsp80.wav
63.man	than	van	<b>nan</b>	afaafsp65.wav
64. <b>zeal</b>	seal	feel	veal	afaafsp77.wav
65.coast	ghost	= <b>boast</b>	post	afaafsp64.wav
66.rode	rose	rove	= <b>robe</b>	afaafsp79.wav
67.tin	<b>din</b>	pin	bin	afaafsp62.wav
68.bag	<b>back</b>	bad	bat	afaafsp63.wav
69.bang	bad	<b>bag</b>	ban	afaafsp71.wav
70.mass	<b>match</b>	mats	mash	afaafsp74.wav
71.lad	land	<b>lands</b>	lads	afaafsp73.wav
72. <b>fought</b>	taught	port	thought	afaafsp66.wav
73.high	hang	how	<b>ham</b>	afaafsp67.wav
74.rib	rick	rig	<b>rip</b>	afaafsp78.wav
75.teen	<b>seen</b>	keen	sheen	afaafsp68.wav
76.mick	<b>milks</b>	mix	milk	afaafsp76.wav
77. <b>cot</b>	cob	cod	cop	afaafsp69.wav
78.sub	sun	sud	<b>some</b>	afaafsp75.wav
79. <b>cab</b>	tab	dab	gab	afaafsp70.wav
80.wet	bet	<b>yet</b>	get	afaafsp72.wav



Hearing Aid Research Laboratory  
807 Jefferson Avenue  
Memphis, TN 38105  
Phone: (901) 678-5848  
Fax: (901) 525-1282  
[www.harlmemphis.org](http://www.harlmemphis.org)