

KIWICORDER
8-BIT
by Judith Bell



8-BIT



13

Teaching notes

8-Bit

for 3 descant recorders (one easy and two semi-advanced), easy alto, tenor and bass.

The title of this piece has two meanings - it is based on the old 8-bit electro gaming style of music, and it also has 8-bit binary coded messages in the advanced recorder part and the opening drum solo.

With the 8-bit gaming style music, listen out in the backing track for looping, build up, extra bass at letter **D** and breakdown at letter **E**.

Because the advanced part is so repetitive, students could take turns playing the 8 bar section.

Each bar in the advanced part is a code for a letter.

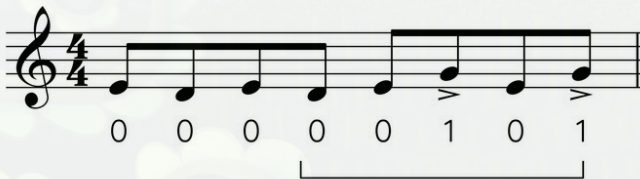
Binary representation is part of the NZ digital technologies curriculum, and a key and worksheet are on the advanced descant pages to aid decoding!

In this piece the low unaccented notes are representing 0's and the higher accented notes are representing 1s.

For example, the second bar (bar 9) would be 0000101. The last 5 quavers (all we need) are shown by a bracket in the example below and represent 16, 8, 4, 2, 1.

In this example (00101) only the 4 and the 1 digits have a 1 (a higher note).

This adds up to 5, which represents E, the 5th letter of the alphabet. (See the chart example).



letter	number	16	8	4	2	1
	5	0	0	1	0	1

1	A	10	J	19	S
2	B	11	K	20	T
3	C	12	L	21	U
4	D	13	M	22	V
5	E	14	N	23	W
6	F	15	O	24	X
7	G	16	P	25	Y
8	H	17	Q	26	Z
9	I	18	R		

You can find more detail on how this works on the CS Unplugged website, with the general idea of binary numbers and coding messages (for primary school students) explained at <https://www.csunplugged.org/en/topics/binary-numbers/>, and some more detail on using it in music at <https://www.csunplugged.org/en/topics/binary-numbers/integrations/binary-tunes/>.

Easy Descant Recorder

8 Bit



Judith Bell

♩ = 142
4/4

A E

mp

13 **B**

21 **C** C A G A

mf

25

29 **D** C A G A

33 D To Coda

37 **E** D.S. al Coda

mp

45 **F** A C A G A

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Descant Recorder Melody

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♩ = 142

4

PLAY SEVEN TIMES!

mf

f

f

BINARY CODE:
 RH notes (or rest) = 0
 LH notes = 1
 The coded message can be found in the last 5 quavers of each bar!
 Can you decode it?

letter	number	16	8	4	2	1

1	A	10	J	19	S
2	B	11	K	20	T
3	C	12	L	21	U
4	D	13	M	22	V
5	E	14	N	23	W
6	F	15	O	24	X
7	G	16	P	25	Y
8	H	17	Q	26	Z
9	I	18	R		

Descant Recorder Advanced melody 8 Bit



Judith Bell

♩ = 142

4 A 8

B PLAY SIX TIMES

mf

f

BINARY CODE:
 Notes below B = 0
 Notes above B = 1
 A coded message can be found in the last 5 quavers of each bar!
 Can you decode it?

letter	number	16	8	4	2	1

1	A	10	J	19	S
2	B	11	K	20	T
3	C	12	L	21	U
4	D	13	M	22	V
5	E	14	N	23	W
6	F	15	O	24	X
7	G	16	P	25	Y
8	H	17	Q	26	Z
9	I	18	R		

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Easy Descant Recorder
Descant Recorder Melody

8 Bit



Judith Bell

♩ = 142

4

A

5

E

mp

mf

9

B

13

17

C

21

C A G A

mf

f

V.S.

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First system of musical notation for the Easy Descant Recorder, featuring a treble clef and a piano accompaniment.

D



Second system of musical notation, marked with a descant symbol and the letters C A G A above the treble clef. The piano accompaniment starts with a forte (*f*) dynamic.

Third system of musical notation, ending with a double bar line and the text "D To Coda" above the treble clef.

E

Fourth system of musical notation, featuring a mezzo-piano (*mp*) dynamic in the treble clef and a forte (*f*) dynamic in the piano accompaniment.

Fifth system of musical notation, ending with a double bar line and the text "D.S. al Coda" above the treble clef.

F



Sixth system of musical notation, featuring a fermata symbol above the treble clef and the letters A C A G A above the notes.

♩ = 142
4

A

mp

13 **B**

mp

21 **C**

mf

25

29 **D**

f

33 **To Coda**

37 **E** **D.S. al Coda**

mp

45 **F**

f

Tenor Recorder

8 Bit



Judith Bell

♩ = 142
4

A

mp

13 **B**

mp

21 **C**

mf

25

29 **D** $\text{\$}$

f

33 **To Coda**

37 **E**

mp

41 **D.S. al Coda**

45 **F** \oplus

f

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8 Bit



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$\text{♩} = 142$

Easy Descant Recorder

Descant Recorder Melody

Descant Recorder Advanced melody

Alto Recorder

Tenor Recorder

Bass Recorder

A

E

D. Rec. *mp*

D. Rec. *mf*

D. Rec.

A. Rec. *mp*

T. Rec. *mp*

B. Rec. *mp*

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V.S.

D. Rec.

D. Rec.

D. Rec.

A. Rec.

T. Rec.

B. Rec.



B

D. Rec.

D. Rec.

D. Rec.

A. Rec.

T. Rec.

B. Rec.

mf

D. Rec. 

D. Rec. 

D. Rec. 

A. Rec. 

T. Rec. 

B. Rec. 



C C A G A

D. Rec. 
mf

D. Rec. 
f

D. Rec. 
f

A. Rec. 
mf

T. Rec. 
mf

B. Rec. 
mf

V.S.

D. Rec. 

D. Rec. 

D. Rec. 

A. Rec. 

T. Rec. 

B. Rec. 



D 

C A G A

D. Rec. 

D. Rec. 

D. Rec. 

A. Rec. 

T. Rec. 

B. Rec. 

f

f

div.

D. Rec. D

D. Rec.

D. Rec.

D. Rec.

A. Rec.

T. Rec.

B. Rec.



E

D. Rec. *mp*

D. Rec. *f*

D. Rec. *f*

A. Rec. *mp*

T. Rec. *mp*

B. Rec. *mp*

mp

V.S.

D.S. al Coda

D. Rec.

D. Rec.

D. Rec.

A. Rec.

T. Rec.

B. Rec.



F \oplus

A C A G A

D. Rec.

D. Rec.

D. Rec.

A. Rec.

T. Rec.

B. Rec.

f

Piano
Bass Synth

8 Bit



Judith Bell

♩ = 142
claps

A
5 Am Am⁷ Am⁶ Fmaj⁷ Dm⁹ Am⁷ Am⁶ Fmaj⁷ Am Dm⁹ F Dm⁹ Am

B
13 Am Am⁷ Am⁶ Fmaj⁷ Dm⁹

17 Am⁷ Am⁶ Fmaj⁷ Am D⁹ F Dm⁹ E(sus⁴)

C
21 Am Am⁷ Am⁶ Fmaj⁷ Dm⁹

V.S.

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25 Am⁷ Am⁶ Fmaj⁷ Am D⁹ F Dm⁹ E(SUS⁴)

29 **D** Am Am⁷ Am⁶

mf

D Am Am⁷ Am⁶

ff

32 Fmaj⁷ Dm⁹ Am⁷ Am⁶ Fmaj⁷ Am

Fmaj⁷ Dm⁹ Am⁷ Am⁶ Fmaj⁷ Am

35 **D⁹** **F** **Dm⁹** **E(sus4)** **To Coda**

E 37 **Am** **Am⁷** **Am⁶** **Fmaj7** **Dm⁹** **Am⁷** **Am⁶** **Am** **Am** **Dm⁹** **D.S. al Coda**

mp

E **Am** **Am⁷** **Am⁶** **Fmaj7** **Dm⁹** **Am⁷** **Am⁶** **Am** **Am** **Dm⁹** **D.S. al Coda**

45 **F** **Am** **N.C.**

f

f

f

F **Am** **N.C.**

ff

v



Kiwicorder Descant 1 - note glossary

