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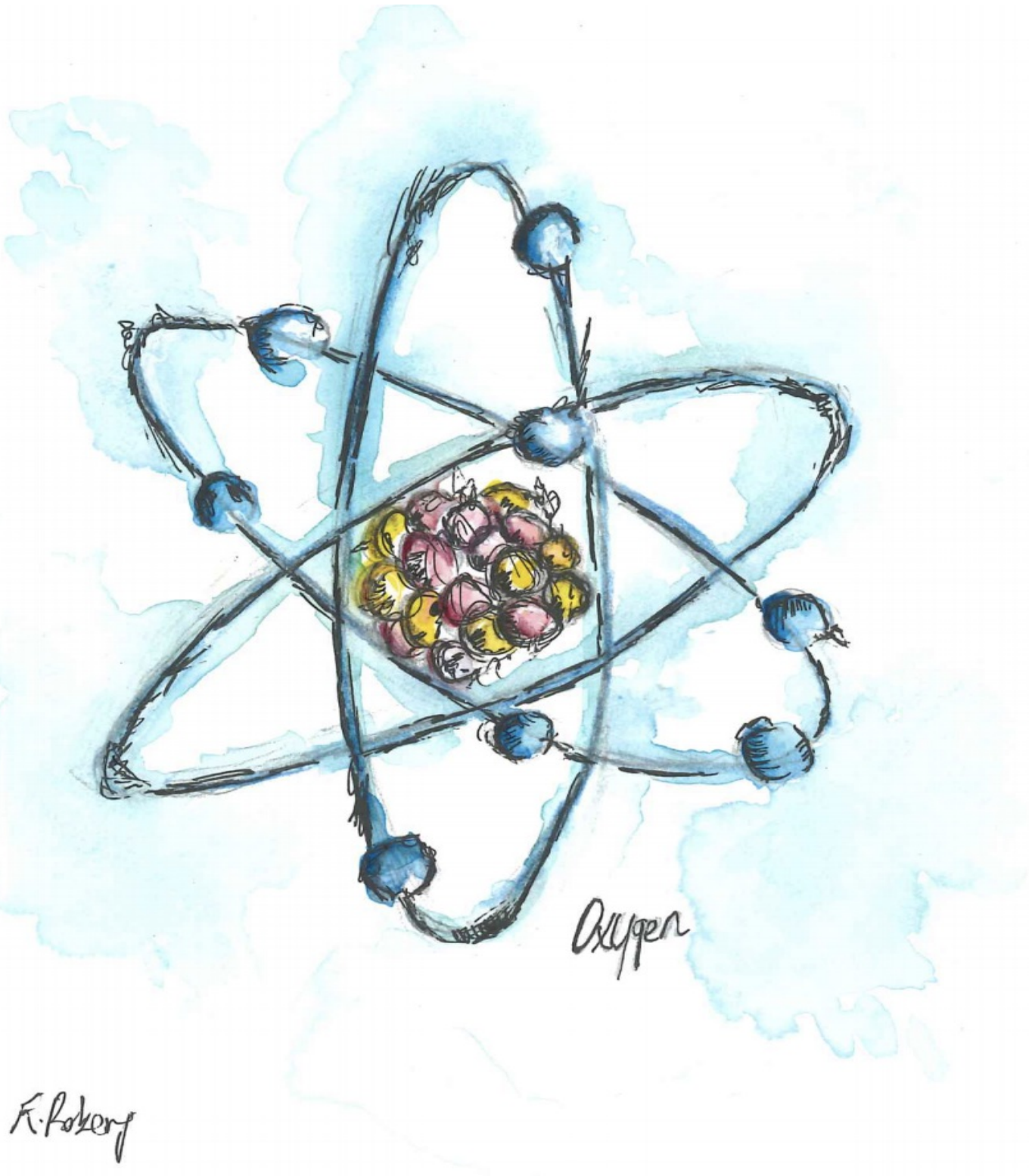
Full Score in C

Mendeleev

For Orchestra

Ella Roberts (2019)



Cover Art by Ella Roberts

Mendeleev

For Orchestra

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Full Score in C

Duration: Ca. 5' 45"

2 Flutes
Piccolo/Alto Flute
2 Oboes
Cor Anglais
2 Clarinets in B♭
Bass Clarinet in B♭
2 Bassoons
Contrabassoon

4 Horns in F
2 Trumpets in B♭
2 Tenor Trombones

Timpani

Percussion (*For 3 Players)*

Perc. 1:
Vibraphone, Bass Drum

Perc. 2:
Suspended Cymbal, Marimba, Tubular Bells

Perc. 3
Triangle, Tom-toms

Harp

Piano/Celeste

Violin I
Violin II
Viola
Violoncello
Double Bass

Programme Note:

Mendeleev celebrates chemist Dmitri Mendeleev's invention of the modern periodic table of elements. The piece has been composed to mark the 150 year anniversary of the Russian scientist's revolutionary discovery. The composer intends for *Mendeleev* to remind audiences of this overlooked discovery, which is integral to the world we live in. Mendeleev first realised his method for categorising the elements through a dream. The music carries the listener through this dream like state, predominantly through the use of ambiguous harmony, soft timbres and extended techniques. As the dream progresses, themes are introduced, each one of these musical gestures reflects the properties of a specific element. These themes have been labelled within the score with the element's corresponding chemical symbol.

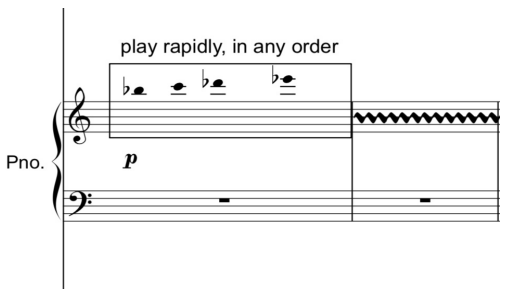
The modern periodic table of elements has been utilised by the composer as a compositional tool. In addition to basing the themes on the properties of the elements, the atomic structures of each element have assisted in generating material.

"I saw in a dream a table where all elements fell into place as required."

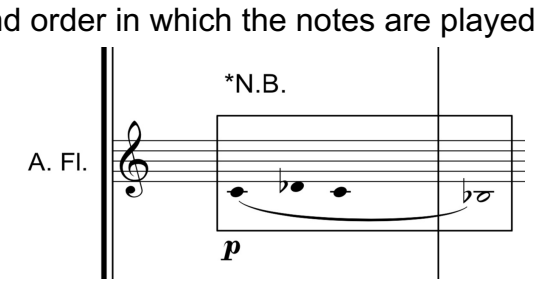
-Dmitri Mendeleev

Performance Notes:

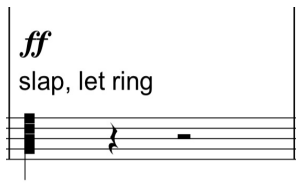
Aleatoric notation has been utilised in some of the parts:



The above notation indicates that the four boxed notes should be repeated rapidly until the wavy line ends, the rhythm and order in which the notes are played can vary, this is at the discretion of the player.



When boxed note heads without stems appear in the woodwind parts these notes should be played with rubato. If each player plays with this freedom of time, parts of the phrase will overlap or become out of sync. This is the desired effect.



The above notation indicates that the harpist should slap the lower strings with the palm.

In harp and percussion parts - a tie indicates that the performer should let the instrument ring/vibrate and not immediately dampen.

Percussion notes:

A Double Bass bow is required for some sections of the Vibraphone part, this has been clearly marked on the score.

The Marimba and Tom Toms should be played with hard sticks. The Suspended cymbal should be played with soft cymbal beaters.

Full Score in C

Mendeleev

Ella Roberts (2019)

Distant, In a Dream State ♩ = 50

Piccolo

Flute 1.2

molto vib.

Alto Flute

p

mp

Oboe 1.2

Cor Anglais

Clarinet in B♭ 1.2.

Bass Clarinet in B♭

Bassoon 1.2.

Contrabassoon

Horn in F

Trumpet in B♭ 1.2

Trombone 1.2

Timpani

Vibraphone

Percussion 1

mp

Suspended Cymbal

Percussion 2

Triangle

Percussion 3

Harp

D♭,C,B♭,
E♭,F,G♭,A♭

Piano

Distant, In a Dream State ♩ = 50

sul tasto

Violin I

pp

sul tasto

mp

p

Violin II

pp

mp

p

Viola

sul tasto

pp

mp

p

sul tasto
divisi.

Violoncello

pp

mp

sul tasto
divisi.

Double Bass

pp

mp

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A

9

Fl. *p* *mp*

A. Fl. *mp*

Ob. *p* *mp*

Cl. a2 *p* *mp*

B. Cl. *p* *mp*

Bsn. *p* *mp*

Perc. 1 *mf*

Perc. 2 *mp*

Hp. *mp*

Pno. *mp* *mf*

With Sustain Pedal, *ad. lib.* throughout

A

Vln. I ord. *mp*

Vln. II ord.

Vla. ord. *mp*

Vc. ord. *p* *mp*

Db. ord. *p* *mp*

12

Fl.

A. Fl.

Ob.

Cl.

B. Cl.

Bsn.

(to bow)

Perc. 1

Perc. 2

Hp.

Pno.

Vln. I

Vln. II

Vla.

Vc.

Db.

15

B

Fl.
A. Fl.
Ob.
Cl.
B. Cl.
Bsn.
Cbsn.
Hn.
Perc. 1
Hp.
Pno.
Vln. I
Vln. II
Vla.
Vc.
Db.

mf

a2

with bow

(to mallets)

with mallets

unis.

18

a2

Fl.

Cl.

B. Cl.

Cbsn.

Hn.

Timp.

Perc. 1

Hp.

Pno.

Vln. I

Vln. II

Vla.

Vc.

Db.

unis.

mp *f* *mf*

G♮

22

Fl.
Cl.
B. Cl.
Bsn.
Cbsn.
Hn.
Timp.
Perc. 1
Perc. 2
Hp.
Pno.
Vln. I
Vln. II
Vla.
Vc.
Db.

ff p mf f gliss. To Marimba

C

26

Fl.

1. solo

a2

mp *p*

A. Fl.

*N.B.

p

Ob.

*N.B.

a2

p *mp*

Cl.

*N.B

p *mp*

Bsn.

a2

p *mp*

Perc. 1

mp

Perc. 3

To Tom-toms

mp

Hp.

mp *mf* *p*

G♭

C

Vln. I

Vln. II

Vla.

Vc.

Db.

p *mp*

*N.B. - To be played with rubato, *ad lib.*

33

D

Fl.
A. Fl.
Ob.
Cl.
B. Cl.
Bsn.
Cbsn.
Perc. 1
Hp.
Vln. I
Vln. II
Vla.
Vc.
Db.

a2
(to bow)
8va
E♮ B♮
E♭ B♭
G♮

39

E

Fl.
Ob.
Cl.
B. Cl.
Bsn.
Cbsn.
Hn.
Tpt.
Hp.
Vln. I
Vln. II
Vla.
Vc.
Db.

p f subito p ff mf

a2

(a2)

1.

mp f mf

slap, let ring

pizz.

arco

44

Fl.

Ob.

Cl.

B. Cl.

Bsn.

Hn.

Hp.

G♭

Pno.

8va

Vln. I

Vln. II

Vla.

Vc.

Db.

F **Delicate, with Movement** ♩ = 120

48

Fl.

wide vib.

p

1. solo

mf p

A. Fl.

wide vib.

p

Ob.

p

1. solo

mf p

Ga **Gallium**

Cl.

1. solo

mf p

B. Cl.

mf p

Hn.

pp

pp

Perc. 1

with bow

mp

Hp.

play rapidly, in any order

p

Pno.

(8)

p

F **Delicate, with Movement** ♩ = 120

Vln. I

sul pont.

ord.

I

II

p

Vln. II

II

sul pont.

p

Vla.

III

gliss.

III

gliss.

ord.

p

Vc.

IV

gliss.

IV

gliss.

p

Db.

p

G

56

Fl.

a2

p

1.

mf

A. Fl.

O Oxygen

mf

Ob.

a2

p

mf

p

Cl.

1.

mf

p

1.

mf

B. Cl.

Perc. 1

(to mallets)

with mallets

Hp.

Pno.

play rapidly, in any order

p

G

Vln. I

sul tasto

Vln. II

ord.

sul tasto

Vla.

sul tasto

ord.

mf

Vc.

sul tasto

ord.

mf

p

Db.

mf

63

Fl.
A. Fl.
Ob.
Cl.
Bsn.
Perc. 1
Hp.
Pno.
Vln. I
Vln. II
Vla.
Vc.
Db.

a2
1. solo
to picc.
(a2)
play rapidly, in any order
ord.

H Playful, Lively

71

Picc.
Fl.
Ob.
Cl.
B. Cl.
Bsn.
Cbsn.
Hn.
Perc. 1
Hp.
Pno.

flz.
a2
(a2)
1. solo

H Playful, Lively

Vln. I
Vln. II
Vla.
Vc.
Db.

ord.
pizz.
arco
He Helium

78

Picc.

Fl.

A. Fl.

Ob.

mf

C. A.

Cl.

a2

a2

mf

f

B. Cl.

f

Bsn.

Cbsn.

Hn.

1.

Perc. 1

To Bass Drum

Hp.

Pno.

Vln. I

arco

f

mf

Vln. II

f

mf

play rapidly, in any order

Vla.

p

Vc.

Db.

I **Erratic, Unstable**

83

Picc.

Fl.

Ob.

Cl.

B. Cl.

Bsn.

Cbsn.

a2

Hn.

Tpt.

Tbn.

Cn **Copernicium**

Perc. 1

Bass Drum

Perc. 2

Marimba

Hp.

Pno.

I **Erratic, Unstable**

Vln. I

Vln. II

Vla.

pizz.

Vc.

Db.

88

Picc.
Fl.
Ob.
Cl.
B. Cl.
Bsn.
Cbsn.
Hn.
Tpt.
Tbn.
Perc. 1
Perc. 2
Hp.
Pno.
Vln. I
Vln. II
Vla.
Vc.
Db.

a2

K Potassium

Dᵇ,C,Bᵇ,
Eᵇ,F,Gᵇ,Aᵇ

pizz.

J

92

flz.

Picc.

Fl.

Ob.

Cl.

B. Cl.

Bsn.

Cbsn.

Hn.

Tpt.

Tbn.

Perc. 1

Perc. 2

Tom- toms

Perc. 3

Hp.

Pno.

J

Vln. I

Vln. II

Vla.

Vc.

Db.

arco

arco

96

Picc.
Fl.
Ob.
Cl.
B. Cl.
Bsn.
Cbsn.
Hn.
Tpt.
Tbn.
Timp.
Perc. 1
Perc. 2
Perc. 3
Hp.
Pno.
Vln. I
Vln. II
Vla.
Vc.
Db.

flz.
flz.
ff
ff
ff
ff
fff
fff
fff
a2
f
mf
To Tubular Bells
gliss.
gliss.
gliss.
gliss.
gliss.
gliss.
8va
f

K **Powerful** ♩ = 50

100

6/8

to Alto Flute

Picc.

Fl.

Ob.

Cl.

Hn.

Tpt.

Timp.

To Vibraphone

Perc. 1

Tubular Bells

Perc. 2

To Triangle

Perc. 3

Hp.

G♮ D♮

To Celeste

Pno.

K **Powerful** ♩ = 50

6/8

Vln. I

Vln. II

Vla.

Vc.

arco

Db.

L **Light, Delicate** ♩. = 50

105

A. Fl.

C. A.

Perc. 1 — Vibraphone

Perc. 2 — To Sus. Cymbal

Perc. 3 — Triangle

Hp.

L **Light, Delicate** ♩. = 50

Vln. I — sul tasto

Vln. II — sul tasto

Vla. — sul tasto

Vc. — solo *expressive*

ord.

ord.

ord. divisi

tutti

114

Fl.
A. Fl.
Ob.
C. A.
Cl.
Hn.
Perc. 1
Perc. 3
Hp.
Vln. I
Vln. II
Vla.
Vc.
Db.

a2

8va

119

M

Fl.
A. Fl.
Ob.
C. A.
Cl.
Bsn.
Hn.
Perc. 1
Perc. 2
Perc. 3
Hp.
Cel.
Vln. I
Vln. II
Vla.
Vc.
Db.

a2
molto vib.
pizz.
ord.
divisi
(divisi)
1.
Suspended Cymbal
Celeste
gliss.

f *mf* *mp*

125

Fl.

A. Fl.

Ob.

C. A.

Cl.

Bsn.

Perc. 1

Perc. 3

Hp.

Cel.

Vln. I

Vln. II

Vla.

unis.

Vc.

pizz.

Db.

N

130

A. Fl.

mp

Cl.

mf

a2

Hn.

mp

(to bow)

Perc. 1

mp

Perc. 2

p

Hp.

mp

mf

Cel.

mp

mf

N

Vln. I

p

mf

Vln. II

unis.

p

II

mf

Vla.

p

mf

Vc.

arco

p

pizz.

mf

Db.

arco

p

pizz.

mf

136

O

Fl.
A. Fl.
C. A.
Cl.
Bsn.
Hn.
Perc. 1
Perc. 3
Hp.
Cel.
Vln. I
Vln. II
Vla.
Vc.
Db.

mp
p
a2
2.
with bow
(to mallets)
mf
I
II
III

142

Fl. A. Fl. Ob. C. A. Cl. Bsn. Hn. Tpt. Tbn. Timp. Perc. 1 Perc. 2 Hp. Cel. Vln. I Vln. II Vla. Vc. Db.

mf p f mp a2 arco gliss. 8va die away II IV