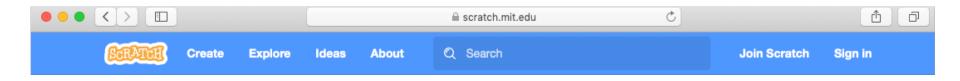
Coding the Elements of Music

If you have a Laptop or a device please go to https://scratch.mit.edu You can choose to create an account 'Join Scratch' or just select 'create' to work without an account.

If you haven't pre downloaded Scratch 3.0 onto your laptop/macbook please <u>do not</u> download now.













REFERENCES

PUBLICATIONS





Session notes:

www.mrsbmusicroom.com/professional-development/





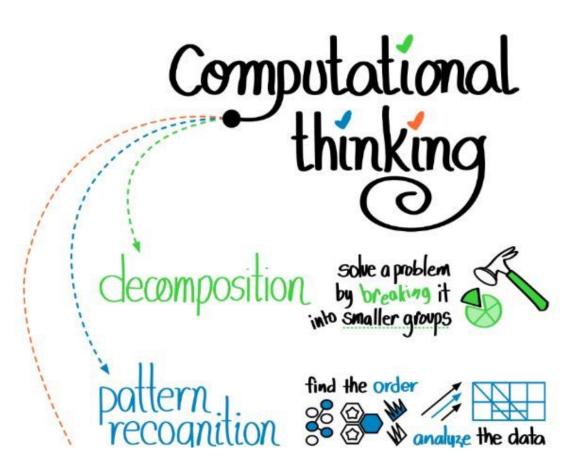






Content Descriptions F-2	Content Descriptions 3-4	Content Descriptions 5-6	Content Descriptions 7-8	Content Descriptions 9-10
Develop <u>aural skills</u> by exploring and imitating sounds, <u>pitch</u> and <u>rhythm</u> patterns using voice, movement and body percussion (ACAMUMO80)	Develop <u>aural skills</u> by exploring, imitating and recognising <u>elements</u> of <u>music</u> including dynamics, <u>pitch</u> and rhythm patterns (ACAMUMO84)	Explore dynamics and expression, using <u>aural skills</u> to identify and perform <u>rhythm</u> and <u>pitch</u> patterns (ACAMUMOSS)	Experiment with texture and timbre in sound sources using aural skills (ACAMUMD92)	Improvise and arrange music, using aural recognition of texture, dynamics and expression to manipulate the elements of music to explore personal style in composition and performance (ACAMUMOGA
General Capabilitie	es +-x÷		Develop musical ideas, such as mood, by improvising, combining and manipulating the elements of music (ACAMUM093)	Manipulate combinations of the elements of music in a range of styles, using technology and notation (ACAMUM100



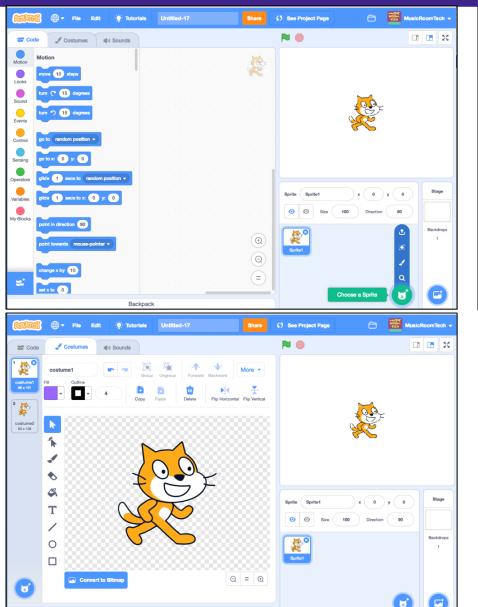


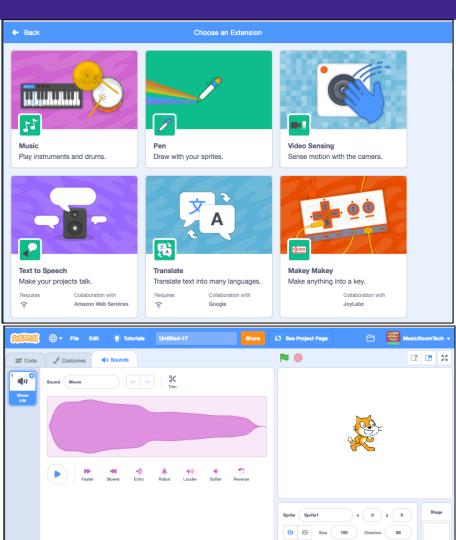
https://www.tes.com/teaching-resource/computational-thinking-decomposition-and-abstraction-11934044

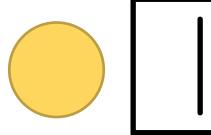
https://www.teacherspayteachers.com/FreeDownload/App lication-of-Computational-Thinking-within-Music-4288642

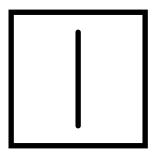


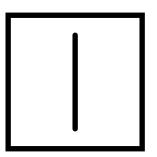


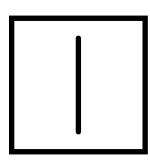






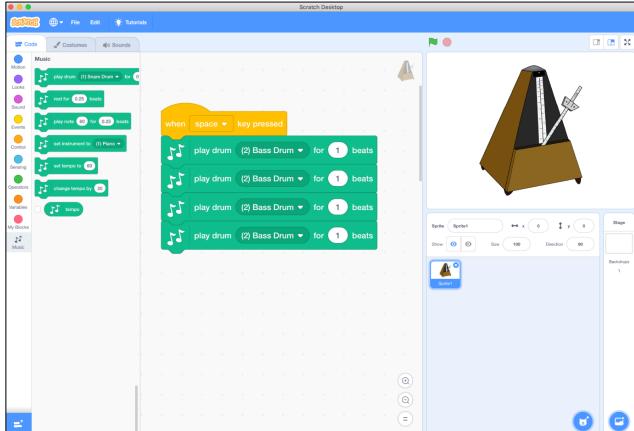






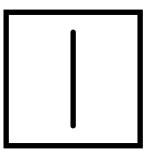
Beat:

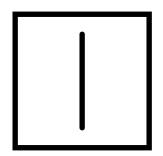
The basic unit of measurement used in music, it is described as a pulse.

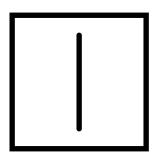


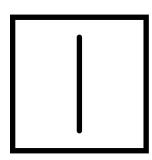








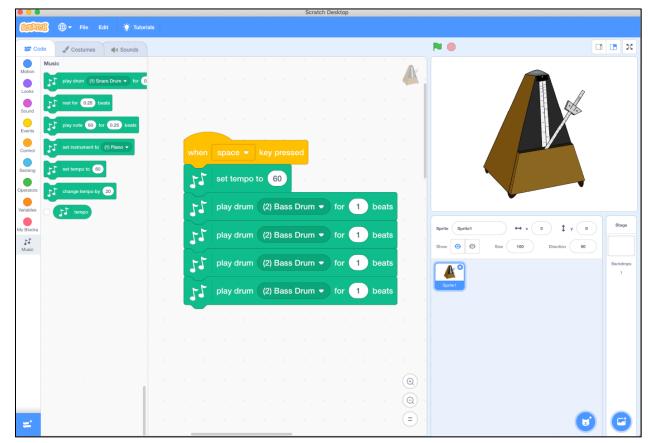




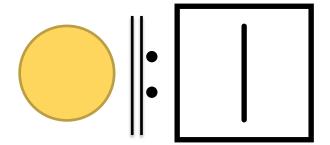
Tempo:
How fast or slow
the beat is played
using the
measurement of
time – bpm
The number of
Beats Per Minute

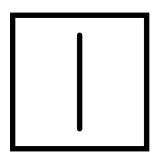
Set tempo to

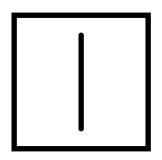
- 60
- 90
- 120

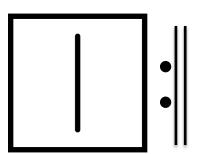






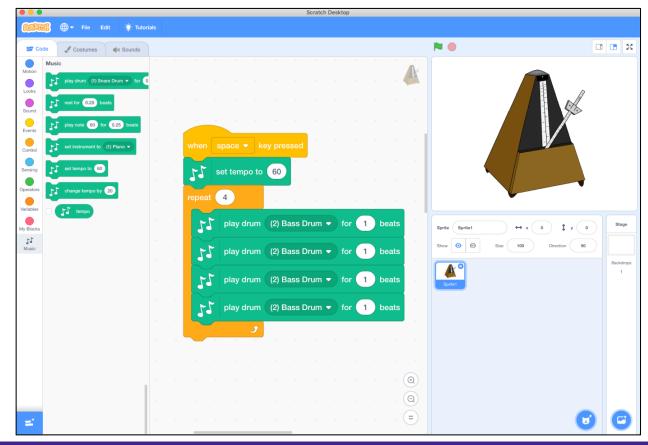




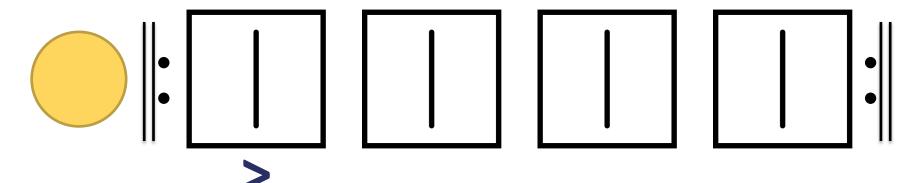


Set tempo to

- 60
- 90
- 120



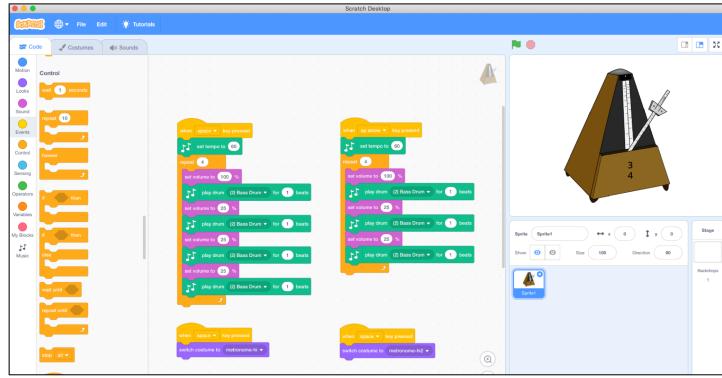




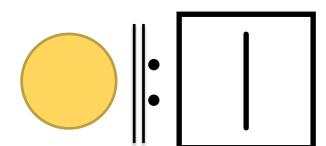
Set tempo to

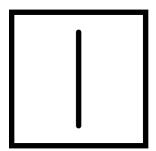
- 60
- 90
- 120

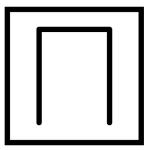
To show the Accented beat set the volume before each block

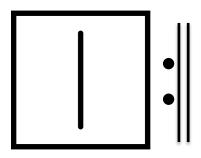












1

1

 $\frac{1}{2} + \frac{1}{2}$

1

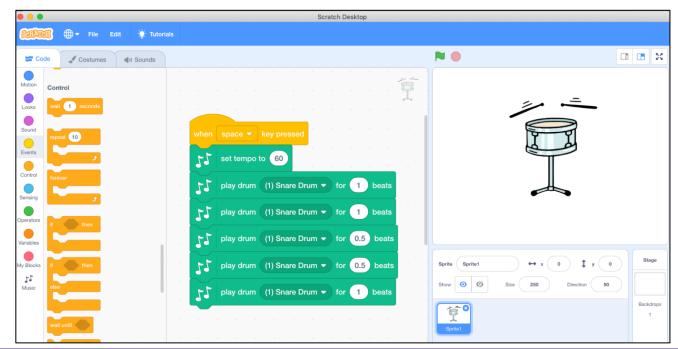
1

1

0.5 + 0.5

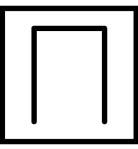
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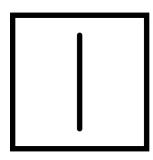
Rhythm:
Combinations of
long and short
sounds and rests
that are made by
multiplying or
dividing a beat
using equal parts
(equivalent
fractions)





Z





1

1

 $\frac{1}{2} + \frac{1}{2}$

1

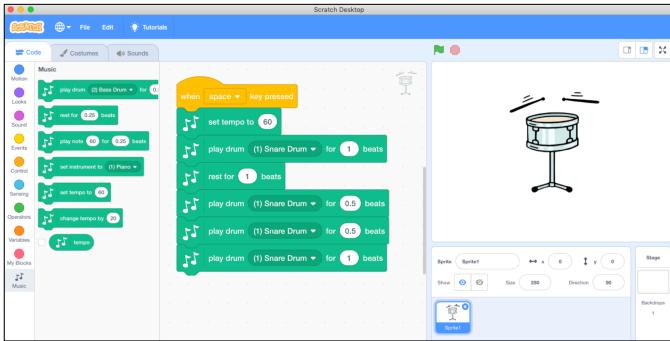
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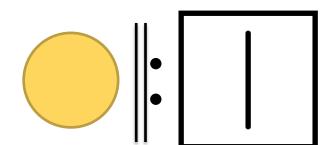
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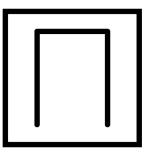
0.5 + 0.5

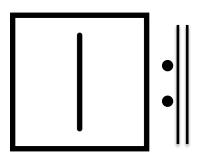
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Rhythm:
Combinations of
long and short
sounds and rests
that are made by
multiplying or
dividing a beat
using equal parts
(equivalent
fractions)









1

1

 $\frac{1}{2} + \frac{1}{2}$

1

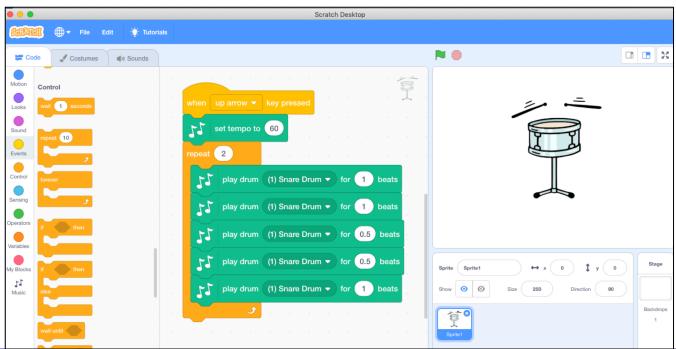
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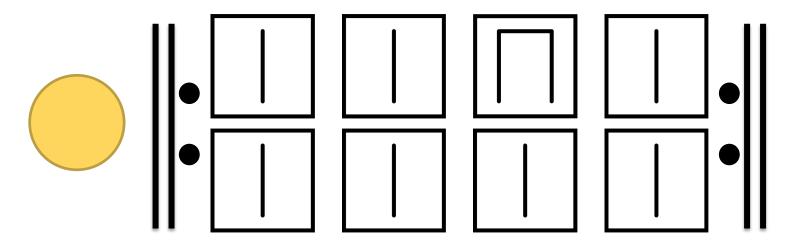
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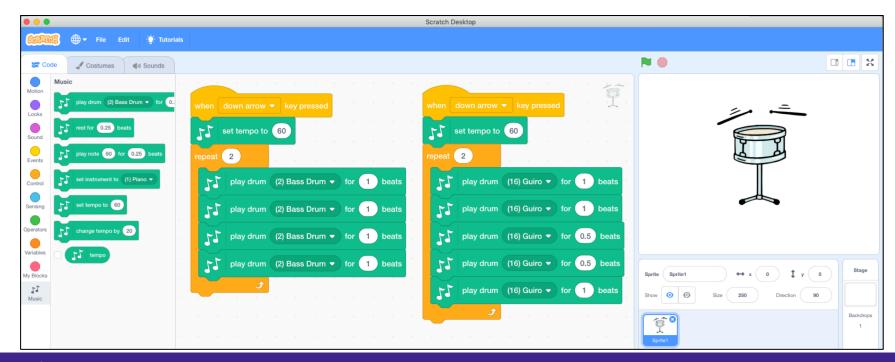
0.5 + 0.5

1

Repeat Bar: Repeat the pattern 2 times unless number of repeats is stated



















High note = 65 (F)

High note = 66 (G)







Low note = 62 (D)

Low note = 63 (E)

Rain, rain, go a - way, come a - gain a - no - ther day

Pitch:

the highness or lowness of a sound Numbers are higher and lower so pitch in music on a computer is represented by how high (large) or low (small) the number is.

Transposition: Change the numbers to be higher by 1 number – this increases it by a semitone.

FYI: Mathematical numbers refer to midi notes in computer language. Middle C is the 60th note on the piano, it's midi number is 60.

