



Zodiac

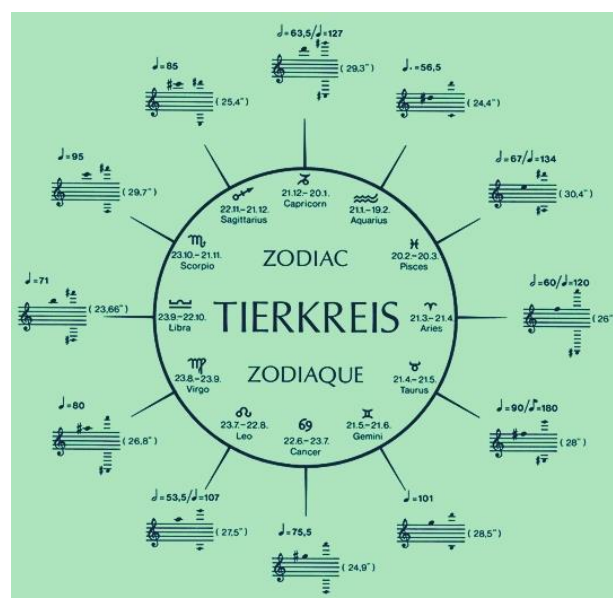
On Thursday 20 August 2020, **BCMG Cellist Uli Heinen** performed *Tierkreis* by the German composer **Karlheinz Stockhausen** in Brindley Place, Birmingham. *Tierkreis* is German for zodiac and the piece is made up of **12 short melodies**, one for each of the zodiac.

Stockhausen composed a number of pieces inspired by **stars** and **constellations** and was interested in **astrology** and **spirituality**. This is what Stockhausen said of the *Tierkreis* melodies:

'In inventing each melody, I thought of the characters of children, friends, and acquaintances who were born under the various star signs, and studied the human types of the star signs more thoroughly.'

There are lots of versions for different instruments including one for 12 specially made **music boxes**. Here is **Aquarius** composed for his daughter Julika: <https://vimeo.com/75744723>

The *Tierkreis* melodies are part of a bigger piece of music called *Musik in Bauch* (music in the belly) which Stockhausen was inspired to compose when he remembered joking with his 2-year-old daughter Julika, that the noises coming from her stomach were *'music in (her) belly'*.



Each of the melodies has its own tone row, a tone row is group of notes/pitches in a particular order. Each of the melodies has a different note that is the **main note**. This note **starts** and **finishes** that melody and **appears throughout** the melody. Leo (Stockhausen's sign) = the note A, Virgo = A#, Libra = B, Scorpio = C and so on.

As well as being able to be played by different instruments, there are also many different versions including this **jazz** one by Uli's son Bruno Heinen. Here is his sextet playing **Scorpio**: <https://www.youtube.com/watch?v=74VqQUnj5hI>

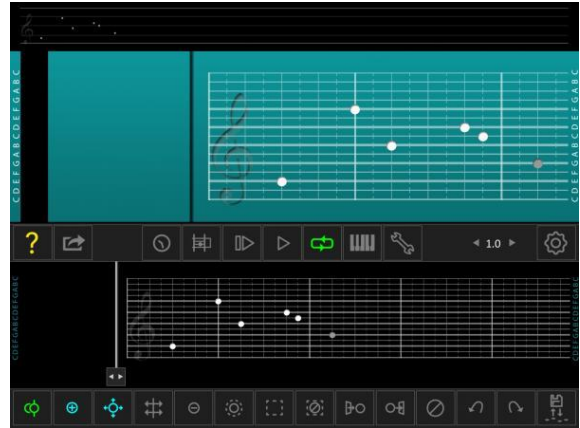
Your Turn!

In this activity you are going to create your own **zodiac melody for music box**. **Music Box Composer** is an inexpensive app (Android and Apple) on which you can create and play music box melodies. You can also buy DIY 15 note music box kit

<https://www.amazon.co.uk/Crank-Music-Movement-Punch-Papers/dp/B0774YHXGS/>

which you can programme to play the melodies you have composed. Have a **play** and **learn** how the Music Box Composer app works.

Being a music box, you can't change the dynamics or the timbre (type/quality of sound) so this activity will focus on **pitch** and **rhythm**. Decide on **who** your melody will **describe** - a friend or family member. **Find out** what their **star sign** is and what characteristics are attributed to that star sign. This will give you the **character** of your music.



Set up the app using the settings icon: set the music box composer app to use **15 notes**. Don't allow **non-music box notes (sharps)**. Set the **snap interval to 1/8**.

Rules to create your melody:

As we saw in the introduction, Stockhausen composed his melodies with certain rules about which notes he could use when. Below is a simplified version to guide how you compose your melodies:

- Notes can be added to your melody by simply touching the grid.
- Choose a **main note** (the notes are listed down the side). Your melody should **start** and **finish** on this note. You can use this note **as many times as you like** in your melody.
- All the other notes you are allowed to use **only once**. You can **repeat them consecutively** (immediately after each other) but **not return to them** later on in the melody. This is like how Stockhausen uses his tone rows.
- How **close** or **far apart** you place your notes will determine the **rhythm** of your melody.
- You can **speed up** or **slow down** your melody by changing the number - this goes from 0 (slow) to 4 (fast). This is a great way to change the **character** of your melody.

You can now:

- **Save** your melody
- **Share** your melody
- **Print** out your melody to play on a real music box
- **Create a new** zodiac melody for a different friend or family member

