

How is current knowledge shaped by its historical development?

Word count: 942

Object 1. "Phone" app in my iPhone 6



This object represents the location of the digits on the iPhone 6 in the «Phone» app. The object is personally attached to me, since for 5 years I have been using this phone and especially the "Call" app in it to communicate with friends and relatives.

Nowadays, people use more advanced technologies and phones that support the Internet and social networks. However, in everyday life, people may need to use their phones to make calls over the communication network. In the "Phone" app of each modern phone, the location of the numbers that are in the photo will fully correspond to the one that was invented in the first landline phones. This arrangement of numbers allows a person, regardless of the phone type, to make a call, because they will have knowledge about the order of the numbers as everywhere it is the same. Arrangement of numbers located in the ascendant form from 1 to 9 and from left to right, how children are taught at elementary school. Zero and an additional grid with an asterisk were available in landlines in order to enter special codes that are needed when performing call operations.

In addition, this arrangement of numbers has become a part of our life, and it simplifies people's lives, because you do not need to seek for the location of the right digit every time, as it remains the same everywhere.

The inclusion of my object in this exhibition shows that, through the development of technologies in history, the external design of the object is being improved and new features are being added; but its main functions, on the basis of which the object was created, remain relatively unchanged throughout time no matter the type and version of the product.

Object 2. My electronic piano



This object is my electronic piano from Company “Casio” model MA-150 that was created in the 2000’s. This object has a personal meaning for me, since I have been playing the piano for 5 years and I was able to compose my first song called "The Blooming Garden of Love" using the built-in drums and a metronome on this piano.

At the age of 11, I started playing the piano in order to study the culture of music around the world. After 2 years, I switched to an improved and technologically advanced version - an electric piano, since on it I can change the keys of the timbre during the game depending on the rhythm of the song; add the sound of the drum and other musical

instruments; record my game and then analyze it. This type of piano differs from the original pianos, because thanks to the technological additions in it in the form of different timbres and accompaniment, the sound of melodies is changed. Comparing with the musical works of the past centuries, in the modern world the whole music industry has changed, there are more electric and techno tones in music and popularity lies mainly on music with sound effects. Classical music is almost not created, since it no longer meets modern human expectations of music. This shows that our knowledge related to the creation of music directly depends on the development of musical instruments technology, which are not much like previous ones and already have built-in sound modification functions.

This piano looks like this because of the musical revolutions in this industry, because people got bored with the usual sound of the piano and were created such that they are able to create new, energetic and technological sounds. Pianos of this kind, because of their "computer" sound, are able to create sounds that a person is not able to hear in nature; thereby making they feel new emotions. In addition, each person can express himself in music just by varying the tonality, rhythm, accompaniment, which are sewn into the piano itself. This means that the technological historical development of this subject as a piano will help us in creating and understanding knowledge about the peculiarities of modern music.

The contribution of my object in the exhibition is to show how changes in technology and improvements in innovative features through time can lead to global changes in the form of entire industries.

Object 3. My bicycle



This object is my personal bicycle of the “Altair” Company, which I have been riding for 3 years. It has a personal significance for me, since it was the first bicycle on which I learned to ride. I chose this object because it shows how the current knowledge about the usability of a bicycle has changed depending on its historical development.

Now we use a bicycle in our daily life, without even thinking about how two wheels are able to keep balance. The first prototypes of the bicycle were created far back in the 19th century, but then they were inconvenient to use because of the small rear wheel and front wheel with a diameter of 102-152 cm to which the seat was directly attached (Berto, 2021). Due to the unstable design, the center of gravity was constantly changing, and if a person fell from a high front wheel, he could get severe damage. Our modern bike looks the same as in the photo because this option is the safest for driving. Studies in the field of sciences helped to choose a bicycle that is convenient for a person, on which it is possible to move quickly and safely at the same time.

The inclusion of my object is to show how important not just changes in product design are, but how historical development has led to a safe, convenient use of the thing. This shows how current knowledge about the construction makes life safe.

Bibliography

Berto,F.J. (2021, December 20). *Bicycle*. In Britannica. Retrieved from

<https://www.britannica.com/technology/bicycle/From-boneshakers-to-bicycles>