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Opinions of High School Students and a Teacher in Teaching and Learning during Confinement by COVID-19

Opiniones de alumnos de secundaria y de un docente en la enseñanza y el aprendizaje durante el confinamiento por el COVID-19

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ABSTRACT

international competition, market developments, transnational, environmental and political challenges are

Globalization, new technologies, migration,

all factors that govern the acquisition of the skills and knowledge that students need to survive and get out graceful during the pandemic occasioned by the disease

graceful during the pandemic occasioned by the disease caused by the SARS-COV2 virus. The pandemic has accelerated many underlying issues surrounding high

schools in Argentina and the challenge of preparing students for work, citizenship, and life in the 21st century. Through this study we seek to learn about how Technology of the Information and

learn about how Technology of the Information and Communication (ICTs) are used by Secondary Education students of a public school in the province of Buenos Aires, specifically the prevailing digital resources that

Aires, specifically the prevailing digital resources that are common in the teaching-learning process. For this purpose, we combine quantitative and qualitative

methodology. On the one hand, a descriptive investigation

The results obtained reveal that the cell phone and, in terms of the applications that they allow, WhatsApp has been the tool they use the most. On the other hand, through a qualitative analysis, we conducted an interview with a teacher to find out her perspective. To do this, we

denote, in general terms, that as a result of both analysis, the system was not prepared, despite the government plans implemented, making visible the

has been performed from and towards the quantitative methodology, in which the data collection has been accomplished through a questionnaire prepared for this study, which was answered by a total of 80 students.

KEYWORDS

COVID-19: lockdown: WhatsApp: secondary students: teachers

RESUMEN

La globalización, las nuevas tecnologías, la migración, la competencia internacional, los desarrollos del

complex argentine educational reality.

mercado, los desafíos transnacionales, ambientales y

políticos son factores que rigen la adquisición de las habilidades y el conocimiento que los estudiantes

necesitan, para sobrevivir y salir airosos durante la

virus SARS-COV2. La pandemia ha acelerado muchos problemas subyacentes en torno a las escuelas secundarias en Argentina y el desafío de preparar a los estudiantes para el trabajo, la ciudadanía y la vida en el siglo XXI. A través de este estudio buscamos conocer cómo las Tecnologías de la Información y la Comunicación (TICs) son utilizadas por estudiantes de Educación Secundaria de un colegio público de la provincia de Buenos Aires, más específicamente los recursos digitales imperantes que son comunes en el de enseñanzaaprendizaje. Para ello, combinamos metodología cuantitativa y cualitativa. Por un lado, se ha realizado una investigación descriptiva desde y hacia la metodología cuantitativa, en la cual la recolección de datos se ha realizado a través de un cuestionario elaborado para este estudio, el cual fue respondido por un total de 80 estudiantes. Los resultados obtenidos revelan que el teléfono celular y en cuanto a las aplicaciones que estos permiten, el WhatsApp ha sido la herramienta que más utilizan. Por

pandemia ocasionada por la enfermedad causada por el

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otro lado, mediante un análisis cualitativo realizamos una entrevista con una profesora para conocer su perspectiva. RIITE, Núm. 10 (2021), 76-90
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resultado de ambos análisis, que el sistema no se preparó, a pesar de los planes gubernamentales implementados, visibilizando la compleja realidad educativa argentina.

Para ello, denotamos, en términos generales, como

PALABRAS CLAVE

COVID-19; Confinamiento; WhatsApp; Estudiantes secundarios, docentes

CITA RECOMENDADA

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Main contributions of the article and future investigation lines:

Integrative qualitative and quantitative analysis of the technological means to maintain the pedagogical link during quarantine, considering the opinions of secondary students and the perspectives of a teacher during isolation in 2020 in Buenos Aires Argentina
 Future lines of research: Analyze other tools such as Instagram to promote student learning in the context of a pandemic and also try to analyze the correlation between those who have more access to technology and the possibilities in the teaching-learning process

1. INTRODUCTION

The COVID-19 pandemic is derived from the disease caused by the SARS-CoV-2 virus recognized by the World Health Organization (WHO) on 11th March, 2020. The recently discovered Coronavirus is generally transmitted from person to person and it causes an infectious disease, which can lead to people's death. This virus has become known throughout the world for its easy transferability, causing the closure of borders. Quarantines were arranged in Argentina in 2020 to combat the Coronavirus pandemic that initially covered the entire territory, maintaining a mandatory closure. Throughout the entire year 2020, Argentina began the sequence of quarantines and restrictions. Argentina is a country traversed by a very complex reality, due to the processes of advances and setbacks in different areas such as economic, political and also educational, gradually becoming in changing scenarios of significant heterogeneity. In March 16TH, the educational authorities of the Ministry of Education suspended face-to-face classes to prevent the spread of COVID-1 9. Since that date, educational establishments and classrooms have been closed and around 10 million students and 900,000

teachers at the initial, primary and secondary level have been affected. Education in Argentina, as well as many countries in the Latin American region, faces a tension that arises from trying to solve the problems of the XXI century without having yet solved those of the XX century. On the one hand, primary schooling, promoting its universalization along with countries in Latin America, such as Costa Rica, Chile and Uruguay. On the other hand,

secondary education, despite being compulsory, presents difficulties in sustaining educational

trajectories as well as in guaranteeing graduation. Although it is, along with Chile, Cuba and Uruguay, one of the countries in the region that shows the highest coverage rates at the secondary level, young people tend to take longer than expected to finish and repetition, over-age and desertion prevail. The Argentine educational system, due to its

massiveness, compulsory nature and expansion throughout the territory, concentrated multiple

demands and faced mobility restrictions but, at the same time, tried to preserve the link with students. The country went through an uneven

educational continuity according to the possibilities of connection of the students and the

remotely nor to work habitually with technological devices. In the first stage of the quarantine, the first impulse consisted of continuing with teaching in the same way but through other means but, then, the teachers encountered

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accompaniment of the families. With an educational system that was not prepared to teach and learn

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obstacles that did not come from the virtual

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resource but from the restrictive reality of the country. The education system had to respond to the prolonged quarantine by implementing proposals, and the directors and professors had no time to plan or think about the role of the school at this time of a global pandomia. A surprising reality

this time of a global pandemic. A surprising reality launched the educational system into action, as many students had to use the devices and means of communication to keep the pedagogical link in quarantine. In this research we will analyze the case of a secondary school in the suburbs of Buenos Aires and the situation of families.

In sum, the purpose of this work is to demonstrate the results of the use of ICT resources made by the students of Buenos Aires and to find out what is their own perception. The results

obtained reveal that cell phone and WhatsApp have been the tools they have used the most. We also incorporate interviews as part of the qualitative research, articulated in a proposal that tries to integrate the teaching perspective from the

students and a teacher during isolation.

experience during the pandemic. Analyzing both parts of the investigation, it has been denoted that the system was not prepared, despite plans such as Conectar Igualdad which consisted in providing netbooks by the government in public educational establishments of all levels of compulsory education.

2. ARGENTINE EDUCATIONAL CONTEXT

If we go back to the past of Argentina, in the period between the end of the 19th century and the

beginning of the 20th, society was heterogeneous due to the fact that most of the inhabitants were illiterate (Suasnabar, 2007), and the teachers who pedagogical subjects after 4 years of study. In the case of women, the possibility of attending university was prohibited and they only had access to jobs related to teaching and instruction of children at home. In agreement with Grimson & Tenti Fanfani (2014), it is important to demystify the phrase "good education was the old one", since the solutions of the past do not fit our reality. Today, education enjoys being a human right, the incorporation and access of women to formal education is guaranteed as a conclusive and unavoidable element for the achievement of full equality of opportunities. Due to conjunctural problems, education always remains in the background. Education is not a priority concern, at least not as much as inflation, unemployment or insecurity (Sanguinetti, 2007), deepening educational inequalities (AndereteSchwal, 2020). Despite of the fact that 5.3 % of the national GDP is allocated and that 8 % of workers are dedicated to education, in Argentina, education tends to emerge in the form of backwardness

(Tiramonti, 2017). According to Tedesco (2015),

taught classes received a training with only 7

million Argentine children during the year 2020 lived under the poverty line at the end of this year, 62.9 % of the total, as a consequence of the worsening of the economic and social crisis due to the Coronavirus (Fondo de las Naciones Unidas para la Infancia, 2020).

2.1. Context of technology in secondary education in the province of Buenos Aires

Argentine education today has difficulties to install a concrete work agenda that integrates inclusion strategies with a good level. In addition, around 8.3

by the different governments prior to the pandemic (Expósito & Marsollier, 2020) was the "Programa Conectar Igualdad" (Alderete & Formichella, 2016), which consisted in the distribution by the State of more than six million netbooks to students and teachers, of public high schools, dealing with the injustice of the digital division. This program was greated during the presidency of Cristing

One of the technological plans implemented

created during the presidency of Cristina Fernández as a State policy in which the Presidency of the Nation intervened (Giuliano & Pacheco, 2015).

Nowadays, it has been ten years since the implementation of the Programa Conectar Igualdad

in the country, considering that

1 Programa Conectar Igualdad. website:
https://cutt.ly/XkEyPo8, last visit, January 2021

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(Lago-Martínez, 2015) reaching half of the schools

digital development has been dizzying, but we continue to see that today Internet coverage, in both schools and homes, is scarce.

In an economically unstable country, the

Internet access coverage was scarce. Until now,

program went through different stages and also breaks, which implied the suspension of the distribution of laptops to all training institutions involved. Although during the presidency of Mauricio Macri the "Conectar Igualdad" plan for both students and teachers was disolved (Marchetti

& Aguirre, 2020), the current president of the Nation, Alberto Fernández, took it up again,

province of Buenos Aires of the instruction to unlock netbooks, because the equipment has a blocking system that prevents its operation when it is not regularly connected to the internet or they have been reported for loss or theft.

attentive to the context of pandemic and "quarantine". This implied the diffusion in the

2.2. The educational reality during the pandemic

Studying during the Pandemic in Argentina, without face-to-face classes has been a challenge, since the school as such did not stop working because the virtual modality was used, with the

successes and shortcomings of a work modality that had never been used before (Johnson et al., 2020). Regarding the qualifications of the students, it focuses on guiding the teaching-learning

processes, taking into account that they develop in very heterogeneous and unequal conditions.

However, the drawback that arose is that it could not be guaranteed that everyone has the necessary digital resources, since 44% of the students who attend state schools do not have electronic

devices to do their homework and the possibility

of having adequate spaces for learning at home (Ministerio de Eduación de la Nación, 2020). The concept of ICTs (Alderete & Formichella, 2017) emerges as the convergence of electronics, software and Telecommunications infrastructures. The association of these three concepts gives rise to a conception of the information process, in which communications opens new horizons and paradigms. ICTs go through the life of institutions, organizations and individuals (Sunkel, 2006). Due to the pandemic, the socio-educational reality and the learning environment has varied dramatically (Sunkel, 2009), readjusting communication; bringing with it emergence of new teaching systems that are characterized by modularity and interconnection, such as WhatsApp. Analyzing the report of the Observatorio Argentinos por la Educación (2020), the most widely used technological device is the cell phone together with WhatsApp since, for most students, the cell phone is their only means of educational connection in the asynchronous mode in a precarious situation while notebooks or tablets appear to a lesser extent (Figure 1). This is because most of the students have the cell phone as the only means of educational connection.

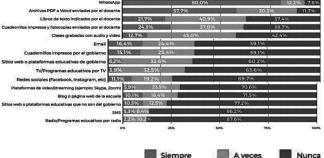


Figure 1. Means used in the proposals sent by the school. As a percentage of the total

according to frequency. Year 2020.

Source: Observatorio Argentinos por la

Educación (2020)

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3. CASE STUDY

A survey was carried out at the school to

integration and synergy with other political initiatives (Grasso *et al.*, 2017) and their ability to promote transformation and innovation.

3.1 Methods

Understanding what were the technology resources used by the students of the secondary school in the province of Buenos Aires

and the perception of teachers. We seek to apply two methods, the qualitative and the quantitative, to obtain the knowledge that revolves around the objectives of the research. For

interpret and assess the vision of technology and underlying education in policies and practices related to ICT in schools, their degree of

quantitative research, we use a survey where the questions are defined as objective questions that are used to obtain detailed information from the respondents, taking into account the goal and the context. Towards the qualitative research, a teacher from a school of the suburbs was selected. The teacher selected represents an image of the Argentine's teachers today, taking into account

the information about the general characteristics of the teaching staff, where the teaching

Identify the particular technological resources used by students and learn the perception that students have about the pandemic and its relationship with the school.
 Comprehend the perception that the

profession is predominantly female and an average teacher is 36-45 age range, and lives in the suburbs (Cardini & Sanchez, 2020). It is specified in

3.2 Research focus

technology recourses.

the following specific objectives:

This research focuses on describing and providing information about facts, starting from the nature and treatment of the data, following the

teacher has about the pandemic and its relationship with the students, school and

non-experimental quantitative methodology in which numerical measurements are made and the results are statistically analyzed. In order to collect data, based on the objectives of the present

investigation, a questionnaire was designed.

Furthermore, we have incorporated a narrative testimony as a qualitative methodological instrument

teacher who is witness and narrator of events (Vasilachis, 2006). We work with in-depth interviews as a qualitative methodology technique, asking a teacher about her experience during classes (FernándezCarballo, 2001). Through the interview to the teacher, we seek to have a diachronic and chronological perspective through the life trajectory of the teacher and the

experiences of people throughout the period of the pandemic. For this purpose, we work with a semi-structured interview, where we prepared a thematic script and the questions that are asked are

(Serrano, 2009). The purpose of this work is to investigate the discussions around the testimony and its privileged place by capturing the voice of a

open. The teacher can express her opinions, qualify her answers, and even deviate from the initial script thought by the researcher when emerging issues that need to be explored are glimpsed.

3.3 Population studied

To carry out the case in a practical way, we

must sample the participants identifying the actors that can be selected. In our case, the scenario (Table 1) presents a group of 80 students out of a

anonymously from grades	y between 12 twe s 1A, 1B, 2A, 2B, ber 53, located in	udents in the school lve and 18 years old, 3C and 5 A in high the city of La Plata,		
	~ 80 ~ 10 (2021), 76-90 gh school students an during co	nd a teacher onfinement by COVID-19		
Table 1	. Characteristics of the	e study population		
Group Average	Socioeconomic Average			
•	_			
	academic	age performance		
1A, 1B, Mean		age performance		
	Me 12-18 years			
Mean 2A, 2B, homes 3C and 5	Me 12-18 years Students have fer One of the parents ha	edium to low w resources in their		
Mean 2A, 2B, homes	Me 12-18 years Students have fer One of the parents har r is assis	edium to low w resources in their old as some type of sted by the state		
Mean 2A, 2B, homes 3C and 5 informal job o	Me 12-18 years Students have fer One of the parents har r is assis	edium to low w resources in their old as some type of sted by the state		

4. RESULTS

4.1 Analysis of the questions to the students

through a quantitative methodology The questionnaire was made addressing two different areas: affective and study. The instrument

that was used to collect the data was a questionnaire that was disseminated through WhatsApp, for which it was designed. Below in

Table 2 we detail the questions asked and the answers with the number of students above the total for each one, also the questions were elaborated from the objectives of this study, and

the questionnaire was answered in the year 2020. Table 2. Questions asked and the answers with the number of students above the total for each one

Question

Reponse	Student Amount				
	Lack	of	information	(the	material)

having much Not

contact, wrong contact,	their parents)					
lack of information, little	No inconvenience	16				
consultation time, not	I just didn't understand some questions	6				
naving the material, etc. Yes, I think that in some subjects they go						
	overboard by giving us homework and they don't					
	explain anything to us, and they don't send an					
explanation either						
Short consultation	time	14				
What do you expect your	Don't send difficult assignments. Because it is a bit	30				
teacher to take	teacher to take into complicated for me.					
account to	evaluate you in					
	<u> </u>					
Patience, since I'n	n not in high school to listen to it.	14				
this new for	m of teaching-					
Each work receive	ed,	20				
learning virtua	ally? which we	cannot				
all deliver due	e to lack of					
understanding or lack of material, etc						
Time and form of homework 5						
						
Not all of us	have internet and that is	s why				
		13				

(It represents the nucleus of students who have no

connection, or the connection is bad or they have

little data and they could not connect as much as

they wanted, or they could not use the cell phone

as much as they wanted since they share it with

Did you find any problem

working in virtual classes?

What was that drawback?

with accessing to and

For example, lack of

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sometimes the delivery of homework is delayed

5

school with responsibility

How we strive to do homework without being in

How we strive to do homework without being in 13 school. The commitment, tolerance towards the student, not having the resources and elements that

are needed at this time for this type of task

We are fine, me and my family, we stay at home

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doing as a family

We are Plus or minus me and my family, looking 4
forward to redoing our activities

Finally we want to know: My dad is not working

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or although scared because 3
how are you and your the I have in my family a risk patient and therefore family with this entire situation? You can add am worried about not going to school, and we are anything else you need to concerned

am worried about not going to school, and we are anything else you need to concerned about the quarantine is not over and we say do not know what will happen

The biggest problem is the financial part because

my dad can't work.

It is complicated; we do not have a salary because it is monotax.

From the descriptive analysis of the data we can see in Figure 2, when faced with the question, with what device they connect to take virtual classes, that 94.2 % of students carry out their activities with their cell phone, 4.3 % use computers and only 1.7% use a Tablet. In addition, 76.8 % of the students do not use email and 23.2 % do not have

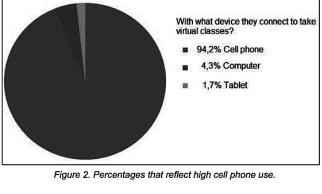
students do not use email and 23.2 % do not have. From these values and percentages one might think that the students are not interested in using the email and that lack of interest is given by the fact that they do not need it. They have no motivation to do so, therefore they do not care if they have mail or not, they do not care to check it and they usually lose the passwords. And this situation is exacerbated by the scarce possibility of accessing a digital device, as we see; only 3.4 % have computers. It can also be stated that the use of the cell phone is with an asynchronous pedagogic mode, due to the scarce

availability of the cell phone (in most houses there is only one phone and it is used by one of their

parents).

allows us to get an idea of the state of affairs as if it was a photograph, in the middle of the measurements of prevention and physical isolation applied in Argentina, influenced directly and untimely by the ways in which students faced the 2020 teaching-learning process and socioeconomic and family problems. The scarcity of digital connectivity and computers hinders pedagogical continuity and most of the consumptions are via cell phone and using telephone data, which makes them more expensive at a critical time for the informal economy. The situation of connectivity and that many families have a single cell phone that they share among all members, is a daily problem for students, generating a digital divide and violating the right to education, since there is great difficulty in accessing to all the educational content.

Therefore, the data that we have presented



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4.2 Analysis of the teacher perception

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through a quality methodology interview and questionnaire to a teacher

In this section we carry out a qualitative approach. (Vasilachia 2006) investigating

approach (Vasilachis, 2006), investigating subjective perspectives, behaviors, experiences, interactions, actions, senses, interpreting them in a situated way, that is, placing them in the particular

pandemic. The pandemic has changed the routine of teachers (Artopoulos, 2020), because education has been one of the most affected areas, which has been forced to reinvent itself to continue teaching at all levels, but especially at the secondary level. The participating subject was a teacher of around 38 years who has been teaching language for more than 10 years in the field of state management in the province of Buenos Aires. The unstructured interview was conducted in sessions during the March-September 2020 period. so that the teacher could ratify or modify the answers in the context of a sequence of quarantines and restrictions. In the sessions, she was welcomed and we explained that her participation would be reflected in an investigation, as well as the purpose of the interview and that both her first and last name would remain anonymous. Below in Table 2 we detail the results of the interview of the sessions.

Table 3. Main opinions of the teacher's interview sessions

Question

context in which they take place. To this end, an in-depth interview was carried out, with questions that detail the experience of the subject facing the situation of teaching classes in the context of the

Description The first days we had the feeling that we were

When the quarantine started, did you feel worried?

we were driven more or less by what we read on the Internet. I was three days in a row without slewing an eye. I had to put together the virtual tasks that I had to start sending because they were demanding them. During this process we feel

adrift, and then

Did you feel that the The accompaniment and adaptation of the usual tasks was

managers accompanied complex, due to the demands of the emergency, as new you in this situation of demands arose. I found that the driving and teaching teams

uncertainty, or did you feel were overwhelmed. alone?

Do you have a computer Yes, in my case,

Do you have a computer Yes, in my case, but not all teachers have a personal one, that you can use many share them with their children of school age. The Internet exclusively, without having service was regular, many times it slowed down, and did not

many times it slowed down, and did not to share it with others in the respond to complains, in addition to power outages that home?

At the beginning we tried to establish a weekly

supporting the effort, communicating, delivering the requested tasks and who is not, or who are What was the weekly contact with your students? experiencing family situations that are affecting them physically or emotionally. In other cases, where there are not many possibilities to contact families. Many times I had to prepare

homework and give photocopies to the family who received the box with the food for the students. The family brings it solved fifteen days later when they

return for a new box and state

or biweekly contact with the alumni, we includes all aspects such as keeping in mind who is

handouts as an alternative. Did you place any emphasis on those

students with more Special emphasis has been placed on monitoring the most

single-parent families, and adolescent mothers, among others. vulnerable situations?

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vulnerable populations, such as students with disabilities,

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the homes of your students to follow the educational proposal?		amily, of the father or mother, in some complicated situations, one or both income.				
At the beginning of the lockdown, what kind of software did you use to work with your students?	In the beginning we used a collaborative platform classroom, but we noticed that the students did not connect; perhaps one of them appeared online					
What attitude did they take when analyzing		her solution since we were not being able to reach the				
students. students did not enter the classroom?						
		completely upset				
along with the teaching-learning dynamics but						
to achieve the te	eaching-	considering the				
overflow situation it was the best we could use learning process?						
With the face-to	With the face-to-face classes suspended, I have had					
to change my methodology to teach at a						
distance,	which implies	answering questions				

Have you encountered

socioeconomic difficulties in

The students are heterogeneous and in many cases do not

have connectivity or a computer. But everyone has a cell phone

outside of school hours, in addition to
Do you consider that the helping those who
have children. Contrary to prejudice, without
work demand has classes, teaching

since it is necessary

work multiplied. There is an excess of work

increased in this way?

system, as well as, due to the lack of limit in working hours. This causes increasing stress that adds to the requirement to maintain a reasonable educational level. With WhatsApp what is taking place in secondary school with the pandemic is the formalization of informal strategies that How did they use the WhatsApp and how to teachers already had, such as WhatsApp groups. The cell phone achieves a connection and also makes possible a greater possibility of pedagogical continuation. There are other achieve the pedagogical resources such as resources such as the distribution of printed materials, but continuity? those who have connectivity with devices, and can interact with their teacher, and those with a booklet do not have the same school experience. We work with other teachers with projects for smaller groups. Each teacher was assigned four or five students to work in a How was the pedagogical content implemented?

more individual way. Many practical works with the cell phone, for the students, but it was not easy. Many times, parents share

to constantly redesign and adapt the entire

problems.

Yes, they have had motivation problems, added to organizational

difficulties with studying, social isolation since it

students were motivated to

mobile data from their phone so that the student can connect

with their classmates and ask questions

is not the same to

study and learn alone than accompanied.

continue? That is why we
work with groups with activities that require
exchange between peers: group work, writing
letters to their
friends, song lyrics written in a collaborative way, etc.

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Practically it had no interference; students who

Tractically it had no interference; students who attend state

Do you think the plan to

"connector igualded" was

"conectar igualdad" was effective, to be an

Educando" digital appropriate technology for national state to the pandemic? pandemic. platform, one of the tools created by the sustain pedagogical continuity during the

From the interpretation of the teacher's

schools do not have electronic devices to do homework. Although according to the ministry, the netbook softwares have already been updated so that they can use the "Seguimos

responses, we were allowed to collect the information and contrast the inequality that appears in teaching learning processes. As we can see, the teacher has contributed to respond to challenges that the confinement measure implies from her perspectives and personal experiences. In addition, the key is the answers; it allows us to infer that teachers are making a great effort because they have the responsibility and commitment to continue supporting education. In this framework, an opportunity that opens up for students is to begin to

see what works and what does not, in relation to technology and what things they can continue to

sustain when they return to the classroom and face-to-face. In Figure 3 we show the screenshots of the the screenshots, which led to more general corrections. The instructions show the work per project in small groups with other teachers (Sandoval, 2020). Then the students sent the tasks to the teacher's cell phone through photos with the tasks done on paper, see Figure 4, so the teacher corrected with certain difficulties. Likewise, it can be noted that from this juncture the Internet is a space that allows teachers to continue with the teaching and learning process, valuing the role of the educator and the link between the teacher and the school from another place with the families. Since a comprehensive perspective, teachers in a context of uncertainty can understand that WhatsApp is essential to stay in contact with students and reach those who are in the most vulnerable situations, to provide

teacher's cell phone, some examples of tasks sent by the teacher to the students. In this case the teacher expressed the difficulty to correct through

pedagogical continuity and avoid abandonment. Besides, it can be observed that when the teacher talks about the selection of digital resources, she understands that she does not need to be an expert in management, because the students quickly take ownership of the technology. According

and sharing documents as seen in the previous figures of photos of tasks sent by the students to the teacher, and that it is useful in the face of scarcity; from the pedagogical point of view it is a very rudimentary tool, generating frustration and fatigue.

to the teacher, it is ignored that despite the fact that WhatsApp is available, it allows communication

2- CÓMO PUEDE SER MORTAL EL CORONAVIRUS

B Q ≠ ■ • U ♥ Ø 2 14.08

Accede al siguiente video y resuelve las consignas: https://youtu.be/Jc0inmKsgN0

- a- Explica el proceso de contagio del virus, indicando por dónde ingresa, hacia dónde se dirige y a que órganos afecta.
 b- Mencionar los signos y sintomas
- que se destacan en el video, se pueden agregar otros que conozcas y no se hayan explicado. c- ¿Hubo casos en tu barrio por la
 - infección con este virus? ¿Qué desenlace tuvo en estas personas la enfermedad?
 - d-¿Sentis que los vecinos de tu barrio cumplen con las normas de salud impuestas? ¿Por qué?
 - 3- Habiendo realizado los puntos anteriores, escucha atentamente las letras y temáticas de las siguientes canciones:

https://youtu.be/AA56K7f9Axc

https://youtu.be/KJBm1r6-TZY

3- Habiendo realizado los puntos anteriores, escucha atentamente las letras y temáticas de las siguientes canciones:

B ○ * ■ • □ □ ▼ △ 2 14.08

https://youtu.be/AA56K7f9Axc

https://youtu.be/KJBm1r6-TZY

https://voutu.be/de0rCKk28a0

Luego de la correspondiente audición, comenta los siguientes items:

- a-¿Existe algún tipo de relación entre las tres? ¿Son iguales o distinto género musical?
- b- ¿Sus letras hablan de lo mismo o de virus distintos?
- 4- Realiza la elección y escribe una estrofa de real sentido al tema actual de la pandemia y su tarea de prevención a realizar. Una frase que deje un mensaje a los demás.

Figure 3. Screenshots of the teacher's cell phone



ARTÍSTICA Y BIOLOGÍA

Actividades:

1- QUÉ SON LOS VIRUS

Observa el siguiente video y luego responde:

https://voutu.be/xzdUv2CqK54

 a- Desarrollar el concepto de virus. b- Dar ejemplos de virus citados en el video.

c- ¿A quiénes pueden afectar los virus?

d- ¿Cuáles son las vías de entrada de los virus al organismos?

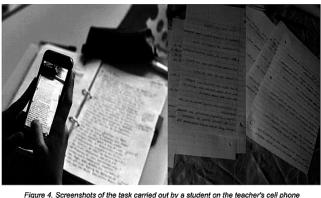
2- CÓMO PUEDE SER MORTAL EL CORONAVIRUS

Accede al siguiente video y resuelve las consignas: https://youtu.be/Jc0inmKsqN0

a- Explica el proceso de contagio del virus, indicando por dónde ingresa, hacia dónde se dirige y a que órganos afecta.

b- Mencionar los signos y síntomas

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rigule 4. Screenshots of the task carried out by a student of the teacher's cell phone

5. DISCUSION AND CONCLUSIONS

This case study has allowed us to obtain holistic information, though necessarily fragmented and incomplete, about the forces that mediate the educational use of ICT in schools during the

pandemic. In particular, we have made it possible to elucidate the impact of policies on the use of ICT

and other political initiatives (Benavides & Pedró, 2007) paying special attention to: organizational issues related to time and the reality of each student; the role of students and the place of ICT, the conditions of access to technology. On the one hand, we can consider that this study is limited to a single interview with a single teacher, and a group from a particular school, and this limits the scope of the study. But we can see in general terms that during the quarantine, most of the students have used the cell phone that was available at home, mostly from the father or mother of the family, demonstrating that programs such as the "Programa conectar Igualdad" did not achieve the goal of digital inclusion at home because the integration was pretty superficial, in this sample validated by the opinion of the teacher. This reason

arises because before the pandemic, teachers did not frequently use netbooks in class and students did not have access to the necessary knowledge to take advantage of the tool and teachers had many difficulties using netbooks.

On the other hand, WhatsApp, was not only instant messaging channel, but currently teachers and students have given it an

educational purpose (Lantarón, 2018), promoting collaborative work and the exchange of content in favor of its development, which has awakened the need for teachers to be part of the transformative drive for the benefit of education. Additionally, due to the lack of resources and when teachers saw that WhatsApp, it has always allowed them to maintain contact with students since it allows making or receiving calls or video calls for free and communicating with and between students, teachers in inaccessible areas with more connectivity difficulties (Gazzo, 2020). Another drawback that is inferred from the use of cell phones is that although, at the national level, training on the use of ICTs has been carried out for years, it must be said that they are not mandatory, nor immediately applicable. In addition, teaching in virtual environments has its own characteristics and leads to different teaching practices, which not everyone is in a position to sustain. It can be seen that in the face of this proposal, the school has not been able to fully advance in facing the containment of students due to the serious situation faced by students with parents who closed their sources of income.

through the interview and the strategies used by the educators of this institution the interaction with students was made possible by the sending ~ 86 ~

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From what was contributed by the teacher

of activities for each curricular space by WhatsApp. He use of notebooks delivered in previous years has had little receptivity on the part of students, among other reasons due to the digital and technological

during confinement by COVID-19

inequalities that have been historically present and that became even more visible with the pandemic (Preti & Fernández, 2020). It was also possible to avoid that both teachers and students were not prepared by multiple factors to enter education

mediated by virtual platforms and applications. This evidenced that computers are needed to

problems, we can see that students in secondary school impacted them due to the economic crisis and many dropped out because they needed to have

study, technological floors, training and connectivity

for students from the suburbs. In addition to these

Argentina, 2017). After the pandemic and the suspension of face-to-face classes, the parameters of education have been abruptly modified. The face-to-face link between the student and the teacher has not been present, nor between the students; and with which the dictation of the subjects was altered (Puiggrós, 2020). The realization of this proposed case study is situated in a constructionist conception of the investigation from the moment that it is proposed to reveal the dynamic contours of social reality and the processes by which configures and makes sense of it. It is an investigation that starts from the principle that the country we live in and the

an income (Centro de Estudios de la Educación

place we occupy are not simple and evidently there for the participants, but they configure the world and its constituent elements every day of their life. Reflect on social reality construction implies paying empirical attention to ordinary processes taken for granted and naturalized, as well as problematizing the most common understandings, the facts of experience that are usually treated as something to be directly discovered, noted, and analyzed.

Furthermore, in an investigation carried out by

Zanona (2020), we see a proposal for the use of the cell phone as a digital pedagogical resource in a Buenos Aires high school and an intervention proposal for its use during the 2020 school year, within the framework of preventive social isolation and mandatory for COVID-19. Her conclusion provides that the cell phone, as a device, constitutes an advantage new resource, such as WhatsApp to motivate their students to keep learning; turn each difficulty into a new challenge to find new solutions, to discover a new project that will help them to continue developing professionally. We also find in the research by Coolican et al. (2020) that analyses the impact of the new coronavirus pandemic (COVID-19) in four educational and technical schools of the San Nicolás district in the province of Buenos Aires, Argentina, analyzing how teacher training can reshape practice and learning moving from the old to the new normal. In opposition, another study, like the one carried out by Mawarni et al. (2020), showed a negative response to the use of WhatsApp. It can be seen from the results of the study that students prefer to have face-to-face learning than online learning, and the existence of obstacles that students experience during the learning process through WhatsApp.

Our study describes and seeks as its main contribution how educational policies are often not adapted to the needs of students and teachers and do not have a long-term perspective, analyzed from a small but significant sample of the Buenos Aires suburbs. As it can be seen, many programs such as the one we analyze imply the delivery of the netbooks to the students, accompanied by some training, as an option in the formation of the pedagogical teaching process and not as a way of teaching but as a complement to teaching. The pandemic has shaken the entire educational system, putting aside discussions in the educational authorities as if the cell phone had to enter the classrooms, since it now became an indispensable tool making the educational reality visible (Andreatta & Melia, 2020). Both from the perspective of the teacher and the students, we can see inequalities, which already existed prior to the pandemic, but which became more evident in a pandemic context. The State must be able to guarantee access to education, but also the different sectors involved must contribute to a complex panorama, such as the pandemic. In this work we saw that there was a strong pedagogical work by the teachers, with a didactic

configuration adaptable to the context and the devices that are counted. With which a great effort of teachers and directors is used to maintain, in some way, contact with students and prevent abandonment. This type of situation leads one to think that many students will have to recover the learning that has been divided in the context of the pandemic because the continuity has been fragmented from many students and give more time for everything that has not been possible to build in this time of discontinuity (Álvarez et al., 2020). ~ 87 ~ Antonieta Kuz RIITE, Núm. 10 (2021), 76-90 Finally, in relation to future work, we will try to analyze and study other software such as Instagram and the impact of its use in didactic planning, as a device to promote student learning in the context of a pandemic and also try to analyze the correlation between those who have more access to technology and the possibilities and access to learning, and the impact on digital citizenship. We will also seek to analyze group and

cross-sectional work between students

and

continuity to the face-to-face model from homes.

6. LINKS

In the following link you can find the survey published by WhatsApp in Word format:

teachers with age groups from other populations such as the university. Finally, we can think that virtual education expanded horizons through different tools such as WhatsApp, to try to give

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