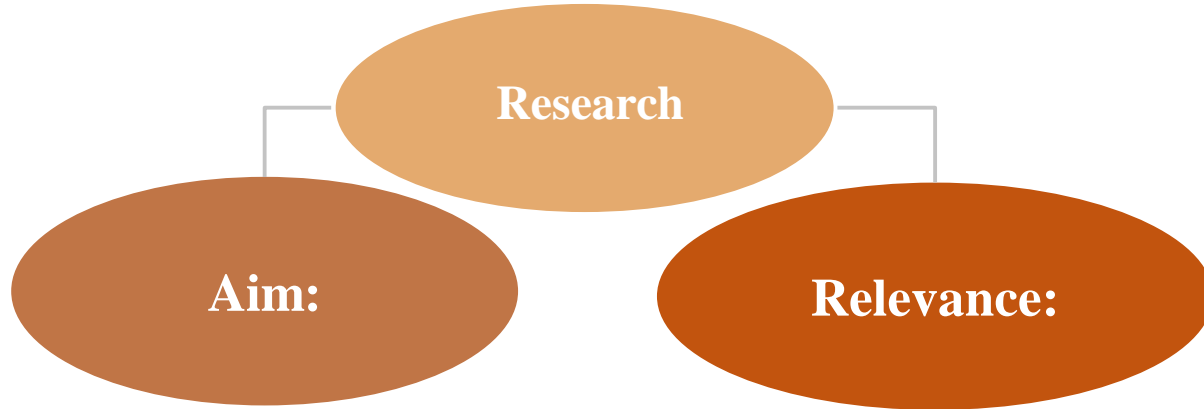




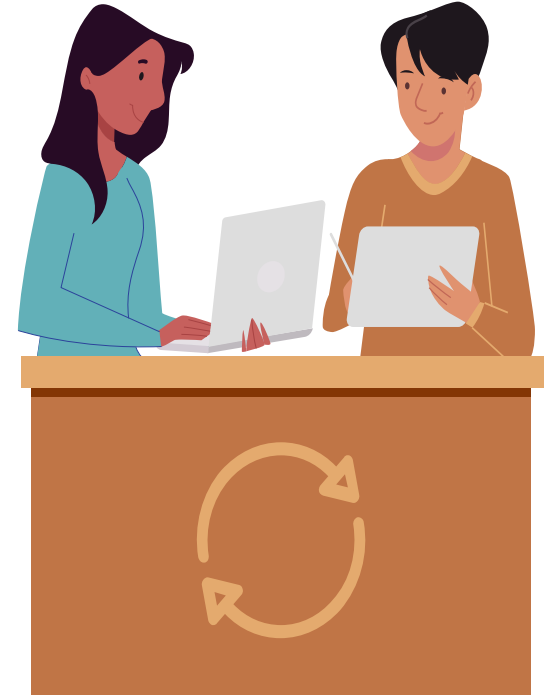
What is the efficiency of flipped classroom and the possibility of ICT in increasing the quality of knowledge for the 10th grade students?

Rationale for Research Practice



To share effective ways to improve the quality of knowledge and motivation of students to learn through the possibilities of ICT and the method of “flipped classroom”

The development of tendencies in the education system has contributed to the change in education. Therefore, it is important to determine the effectiveness of the “flipped classroom” method through the possibilities of ICT



Research Questions:

01

To what extent does the method of “flipped classroom” affect the quality of education?

02

What are the possibilities of ICT and the method of “flipped classroom”?

03

What are the advantages and disadvantages of ICT and the method of “flipped classroom” that have taken place in the learning process?



The need to apply the method of “flipped classroom”

Declining quality of education

Preparation for the external assessment

The impact of distant learning on the learning process

Students' failure to complete homework



1 cycle

I and II terms of 2019-2020
academic year

- A) Discussion with colleagues and analysis of the quality of academic performance of 10th grade students;
- B) Studying the works of researchers
- C) Systematization of the works of foreign researchers;
- D) Summing up the results of the questionnaire and interviews from students and parents;
- E) Introduction into practice in the second term of the method of "Flipped classroom"



2 cycle

II and III terms of 2019-2020
academic year

- A) Enhance method application and study monitoring
- B) Analysis of the results of the second half of the year
- C) Results and conclusions of secondary social research
- D) Comparative analysis of the quality of academic year 2019-2020



3 cycle

2020-2021 academic year

- A) Active application of the experience of 2019-2021
- B) Transfer of experience in the school community and feedback
- C) Summing up and analysis of the study
- D) The result of the research
- E) Sharing of experience at the level of the city, region and republic.



The principles of “Flipped classroom” approach



**Continuous
interaction**



**Effective use of ICT
opportunities in the
educational process**



**Cooperative
learning**

**Out of the
classroom**

**In the
classroom**

**Skills on how to
use video tutorials
and podcasts**



Knowledge

**Skills of self-
study**



Individual completing the tasks

Soft skills

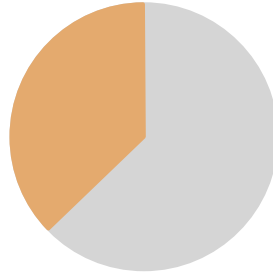


**Completing tasks in pairs and
in groups**

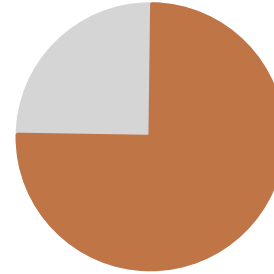
Traditional learning

A teacher explains a new theme

35%



75%

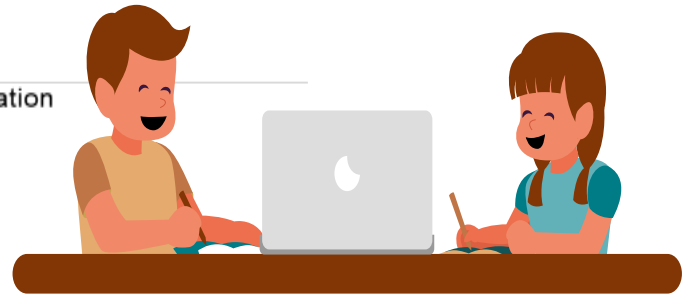
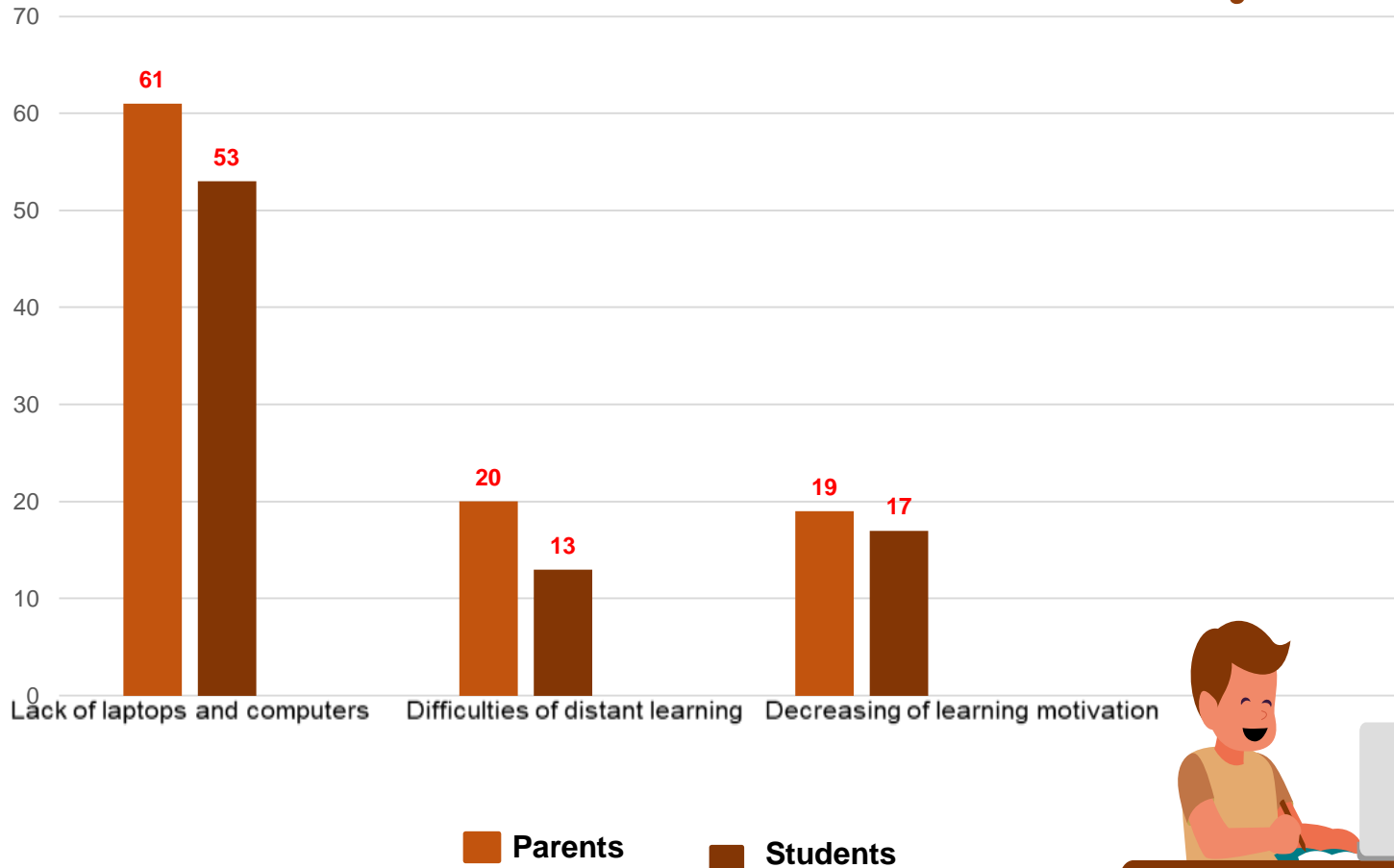


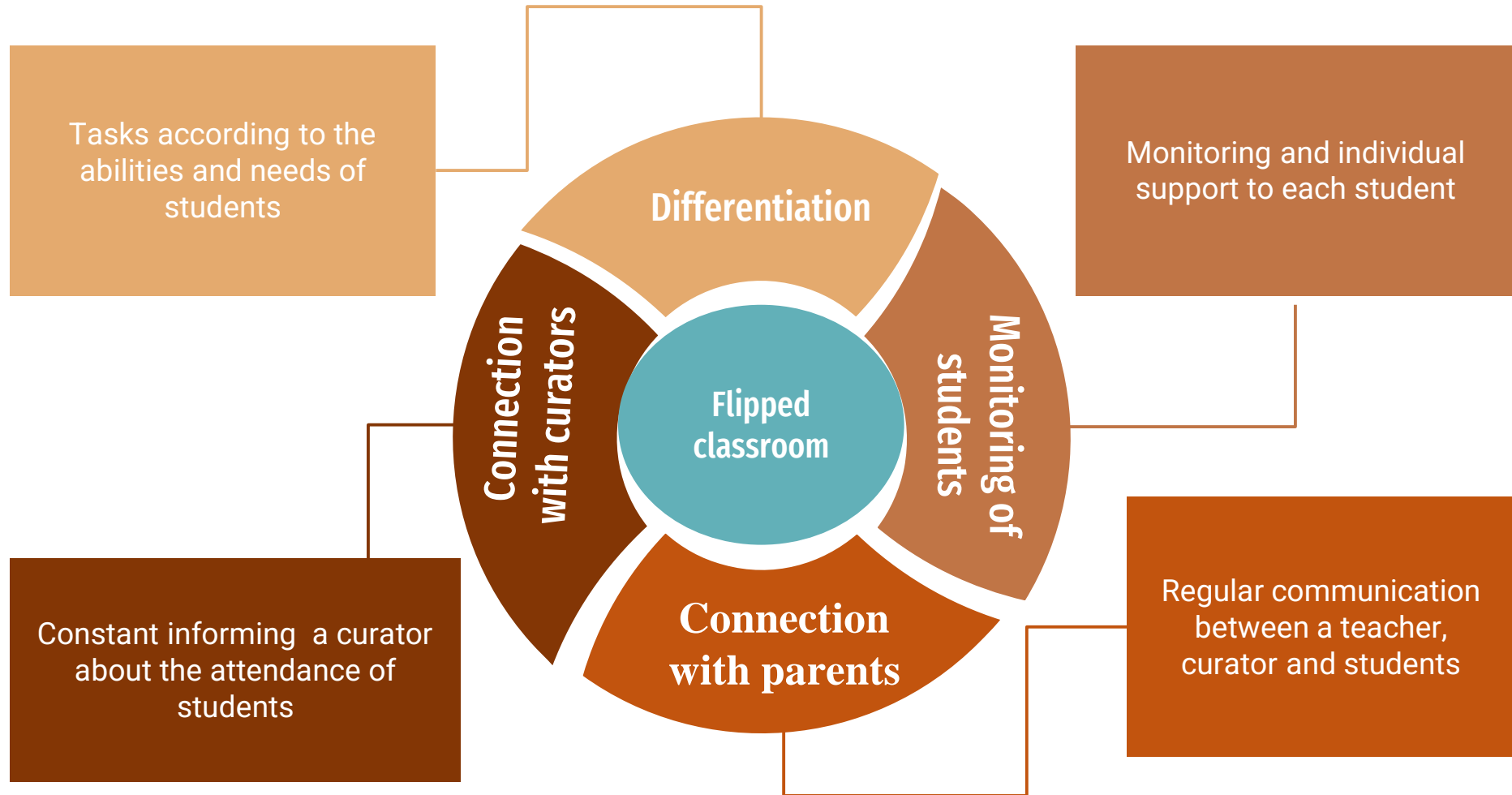
Flipped classroom

There is discussion and then completing the tasks



Results of the first survey





Tasks according to the abilities and needs of students

Differentiation

Monitoring and individual support to each student

Monitoring of students

Flipped classroom

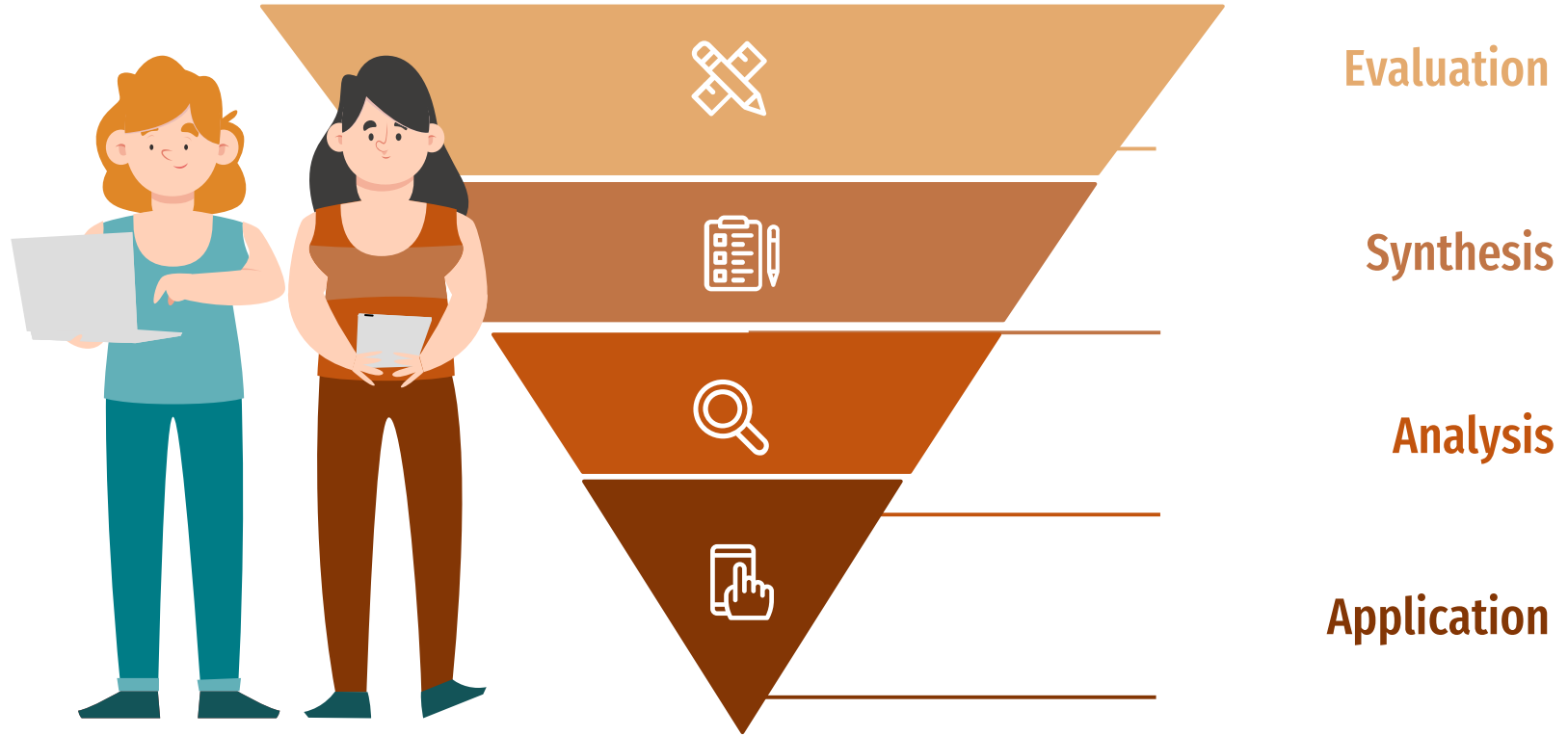
Connection with curators

Constant informing a curator about the attendance of students

Connection with parents

Regular communication between a teacher, curator and students

Developing of skills with the “Flipped classroom” approach





Preparation of materials (recording of short videos creating a podcast)

1



Systematization of tasks completed in the lesson (data analysis, literature review, essay writing)

2



**Homework
(to read the informational text uploaded to the Microsoft Teams platform, watch a video material, and listen to a podcast uploaded to whatsapp)**

3

Flipped classroom planning

Procedure of a lesson

Discussion of the
conceptual questions

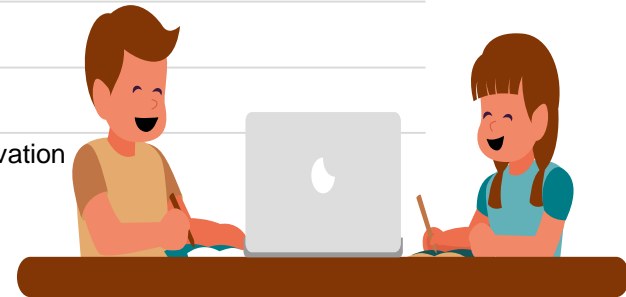
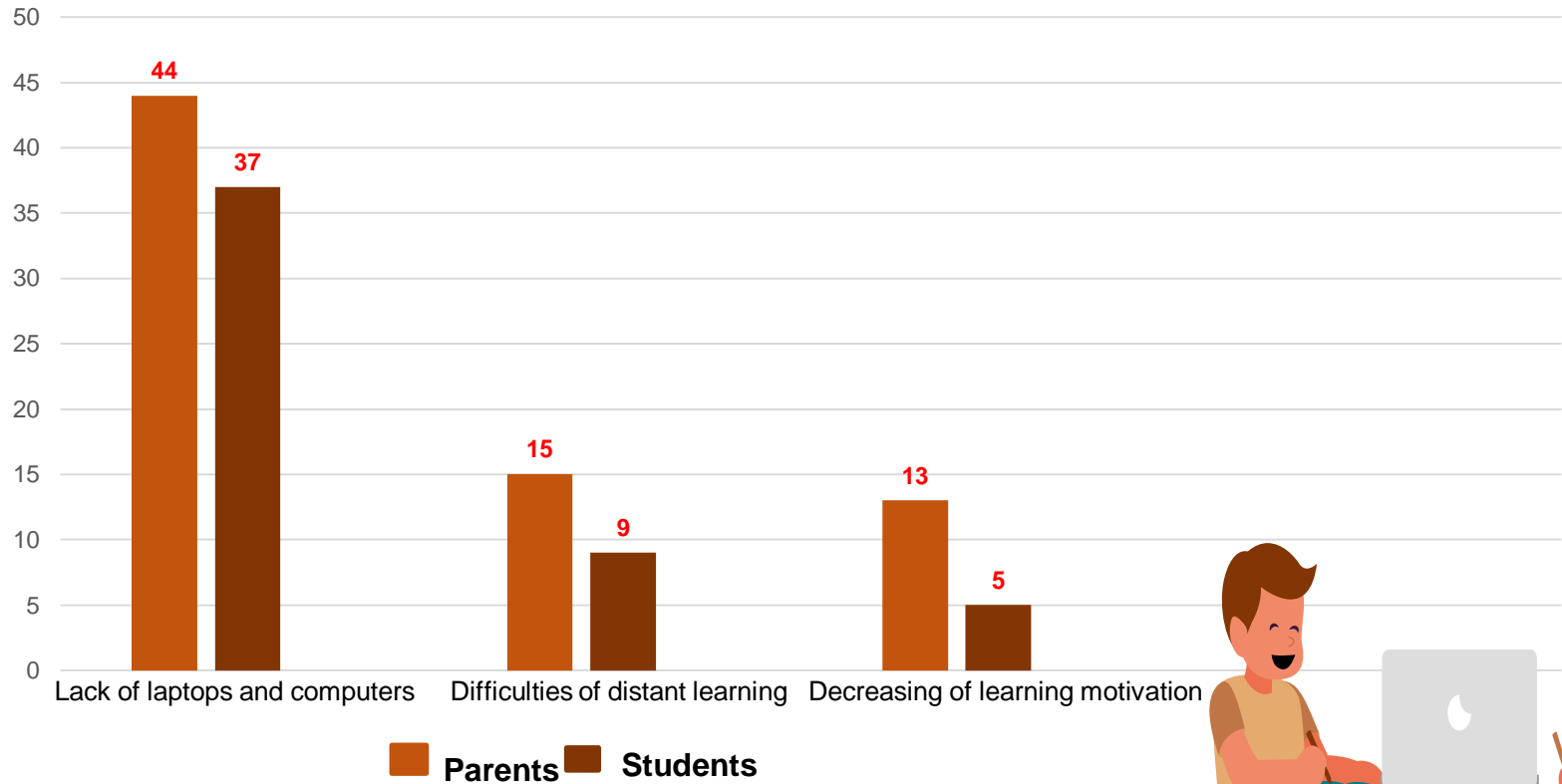
Literature
Review

Joint research
work



Literature
review
evaluation

Secondary Poll (survey) results



Comparative result of the 2020-2021 academic year

Grades	A*	A	B	C	D	E
	5	5	4	4	3	2
Number of grades	15	23	70	1	0	0
Number of students	109					

Advantages

Learning
monitoring

Development of
self-study skill

Students
collaboratively
learn content

Connection
between school
and parents



Disadvantages

The internet is not
always available to
students

Some students do
not complete
assignments

Thank you for your attention!