Evaluation of the Eco-Active project after the 2nd year

All partner schools realised the project activities in their countries. At the beginning of the school year, school coordinators announced a competition for the collection of used batteries by students. From September 2018, students started collecting batteries in their schools, implementing project records.  
  
The Latvian school has prepared a videoconference schedule for the second year of the project and sent it to all partner schools. Videoconferences were carried out throughout the second year of the project. The tabular summary shows the course of videoconferences.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Videoconferences | Italy | Latvia | Slovenia | The Netherlands | Poland |
| 7 | 7 | 6 | 4 | 7 |

4 (Polish, Italian,Dutch and Latvian partner schools) collected a total of 4539,624 kg of used batteries. Slovenian school was collecting batteries and counted them but didn’t give the result in kilograms and didn’t state its decision. That’s why we cannot add their result to the main summary table. They have collected 10901 batteries in units. We have selected the best 3 eco-classes and the best 3 eco-students and we calculated the average amount of collected batteries in kg per student in 4 school except Slovenian school ( the results in units).The figures are presented in the following chart.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | School results in the amount of collected batteries in kilograms by May 21st 2018. | Average amount per student (number of batteries collected at school in kg divided by the number of students at school) | Three best classes in the collection of batteries (specify the amount of collected batteries in kg and class) | Three best students (give the number of collected batteries in kg per each of them and the class) |
| The Netherlands | 173,5kg |  | No competition | No competition |
| Slovenia | We were counting the batteries.  The students collected 10901; | We were counting the batteries.  The students collected 10901; there are 296.  36 pieces per student | 1. **A**   **3. B**  **4. A** |  |
| Latvia | 370,515 kg | 3,062 kg | I -3 class – 200,735 kg  II – 6 class – 78,245 kg  III -4 class – 50,163 kg | I –LINARDS ŠTRAUSS – 80,290 kg  II – AMANDA ŠTRAUSA – 78,245 kg  III – RALFS EMĪLS SKADIŅŠ – 40,191 kg |
| Italy | 430kg | 1,43kg | Class 4a, 100 kg  Class 4b, 60 Kg  Class 4c, 49 Kg | Aguglitta Alice-Class 4a Kg 60  Milazzo Sharon-Class 4c Kg 30  Accardi Viola –Class 4B Kg 28 |
| Poland | 3690,109 | 7,669 | I 3c – 728,400  II 4c – 423,798  III 5a – 365,530 | B.Gieras – 650,000 kg kl. 3c  F. Pokropski – 331,090 kg kl. 5a  K. Majchrzak – 268,608 kg kl. 4c |

The students of Polish school collected the biggest amount of batteries.

Polish school became Eco-school, second place. Latvian school and third place Dutch school

Eco-classes:

I place - 3c Polish school

II place 4c Polish school

III place 5a Polish school

Eco-student

1 place: B. Gieras (650,00kg ) Poland

2 place: F. Pokropski ( 331,09 kg ) Poland

3 place: K. Majchrzak (268,61 kg) Poland

The thematic areas in the second year of the project were Water and Energy. On the initiative of students, more than planned videoconferences were carried out. Pupils also showed great initiative in organizing various types of ecological competitions in schools thematically related to the project.

|  |  |  |
| --- | --- | --- |
|  | Number of lessons about ecology carried out by teachers during educational hour by 05.25.2018 | Number of eco-actions  by 25.05.2018 |
| The Netherlands | 63 | 24 |
| Slovenia | 45 | 12 |
| Latvia | 190 | 37 |
| Italy | 100 | 50 |
| Poland | 481 | 392 |

Until 25th May 2018 all partner schools provided 879 lessons about ecology and 515 eco-actions.

In all partner schools, competitions for eco-games and presentations concerning the second and third thematic area of the project: Water and Energy were announced. All schools have fulfilled this task and the best presentations and the best games were presented during a visit to Slovenia during the Eco-week (October 8 - October 14, 2017) - Second theme: Water and during the Eco-week in Italy on 27.05. - 02/06/2018 - Third thematic area: Energy. They taught each other to play these games. They showed presentations.

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Lesson plans developed by teachers are placed by all partners on e-Twinning. Slovenian School is responsible for the final version of Ecopaedia - a guide for teachers (hard product). The project coordinator controls the regularity of the inserted lesson plans. The Slovenian school will prepare these lesson plan (at the time recorded in the project) in digital form. The paper form of lesson plans each partner school will prepare after receiving it form Slovenian school. The project records clearly state that each school places at least two scenarios (one for younger children, the other for older students A-21) concerning each thematic area: Resources, Water, Energy, Health (a total of at least 8 scenarios). Everyone can create more. Ecopaedia is the innovation of the project - entries on page 22 of the project.  
The summary shows the current number of lesson plans placed at the end of the second year of the project.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | THE NETHERLANDS | ITALY | LATVIA | SLOVENIA | POLAND |
| RESOURCES | 3 | 4 | 2 | 2 | 3 |
| WATER | 4 | 2 | 2 | 2 | 2 |
| ENERGY | 2 |  |  | 1 | 3 |
| HEALTH | 3 |  | 1 | 1 |  |

Until now, Italian and Latvian school didn’t post scenarios concerning Energy and Health areas.

Until now, the Polish coordinator has issued 7 newsletters.. The newsletters illustrate the work of all partner schools within two years of the project's duration. Newsletter 8 (from 1st June- 31st August 2018 – 2 months of summer holidays) will be released at the end of June and evaluation of the 2 nd year of the project and Eco-week in Poland, and information from partner schools sent till the end of the school year).The newsletters were placed on e-Twinning and sent to partners in order to be placed on the websites of their schools. In the second year of the project, all schools announced the competitions for "Healthy, weekly, home menu" and the sticker “ Save water and energy” In the second year of the project, all schools organized Eco-weeks:  
Netherlands 3.10-13.10.2017r. /24.05 – 8.06.2018   
Latvia 23-27.04.2018  
Slovenia 08/10 - 14/04/2017  
Italy 27.05 - 02/06/2018.  
Poland 04.06 - 08.06.2018.

At the end of the second year of the project, the project was evaluated by surveys previously developed by the project coordinator and discussed with the partners. Anonymous questionnaire was filled by students, teachers and parents.

The results of INTERNAL EVALUATION (all partners)by questionnaires

Questions for class teachers (tutors):

In Polish school 24 tutors from grades 0-7 took part in the study, which is 100% of the number of tutors at school.

In Latvian school the questionnaires were done by 9 tutors what gives 100%. The number of teachers who answered “YES” were 4, and 5 answered “NO”. All tutors from Italian school answered “YES”.In Slovenian school there were 15 tutors who filled in the survey, 83% ANSWERED “YES”, 17% - “NO “. In Dutch school there were 15 tutors tested and they all answered “YES” (100%).

These are the circle scheme what shows the results in schools

QUESTION 1: Have the entries in the class's eco-notebook helped illustrate the students' involvement in the project implementation and made it easier to keep records of the collected waste paper and used batteries?

QUESTION 2: Has the eco-class notebook allowed to select the class leaders in the collection of raw materials?

QUESTION 3: Has the class eco-notes made it easier for you to keep statistics on ecological activities KTUundertaken by your students and your classes within 2 years of the project?

Results of the survey for parents:  
  
The questionnaire in Poland was filled by 385 parents from grades 0-7, which is 77% of all parents.  
In Latvian school there were106 surveys distributed and parents 64 sent back. The Dutch distributed 64 and Slovenian schools didn’t specify how many surveys did they give to parents and the results were counted on 28 surveys (100%) received back.

The results are as follows:

The results of the survey for students:  
  
In Polish school the questionnaire was filled by 459 students from grades 0-7, which is 91.8% of all school pupils.  
The Latvian school distributed 106 questionnaires to pupils and received only 53 and that number was treated as 100% and that was a measure in % for each question. The Dutch school distributed 28 questionnaires for pupils and all returned. That was 100% of answers and we measured % of answers to the questions. In the Dutch school there are 219 and in Slovenian school -171 students .In Italian school tere are 300 students. The questionnaires were distributed to 100 students and 87 returned. So 87 students answers were taken as 100% of statistics.

The results are as follows:

The data we received from partner school doesn’t show the testing of whole students’ population at some schools, as some partners didn’t distribute the questionnaires to all students at their schools but they only chose a group of students for testing and that’s why it doesn’t show the opinion of whole population in their schools.

CONCLUSION

The analysis of the results over the 2 years of the project duration shows that the objectives of the project have been achieved. Leading classes, students and schools were selected for the collection of recyclable materials (waste paper and used batteries). All schools collected 157197. 1 kg of waste paper and 4539. 624 kg of batteries, as well as an additional 10901 pieces of batteries. Numerous participation of students in ecological competitions for the project logo, the sticker "Save water and energy", involvement in videoconferences, creating eco-games and multimedia presentations indicate that the objectives of the project are being achieved.

The results achieved so far by the pupils during the implementation of the project:

* identified the leading classes in the field of secondary raw material sourcing each year of the project.
* The award was made to the leading classes in the field of collecting points for ecological activities - class Econotes,
* The project was implemented in the following years, and - the presentation of the leading schools-Ekonotes of the school in each year of the project.
* identified the pupils who performed the best ecological board games or interactive games
* It stimulated creativity and increased student initiatives opened them up to other cultures
* Students broke the language barrier (English)-Videoconferencing and short term exchanges of pupil groups
* Selection of an initiative group from students, which started activities under the Eco-Schools programme;
* Students acquired knowledge of entrepreneurship (home-grown econotes)

acquired skills in the Europass programme – they know how to create a CV in English

* Students defined tasks and they implemented them in international groups

Results on teachers achieved so far during the implementation of the project

* Teachers raised awareness of environmental and health care issues in educational work and in the field of school didactic activity for the local environment
* Teachers modified of the educational programme, used ECOPEDIA (original scenarios of lessons and ecological activities);
* Teachers strengthened cooperation between themselves and parents through the implementation of joint project tasks
* Teachers improved digital literacy and English proficiency
* Teachers improved one's own workshop in order to properly plan and carry out project tasks by students
* Teachers acquired new competencies through exchange of experience with staff from partner schools
* Teachers increased their pedagogical competence in the field of didactic and educational work with children (they shaped pro-ecological and pro-health attitudes in students).

At the end of the coordinators meeting all partner schools members had a discuccion on joining the programme of ECO-SCHOOLS. Slovenian school coordinator whose school is already a member of the association said that the fee for joining the programme is very high and what’s more each year the school has to pay for its renewal. We agreed that it’s too expensive for our schools to join the programme as we have no funds to do that.

“TO DO LIST” for the 3rd year of the project

1.

30th September we will end the third thematic area of the project- ENERGY.

It is also the deadline of completing all unfinished tasks ( lesson plans for ECOPEDIA etc)

Each school will post at least 2 lesson plans (1 dedicated for young students, 1 for older students)

2.

1st October 2018- 30th April 2019 we will do the 4th thematic area of the project – HEALTH.

3.

Visit in Latvia:

-bring Weekly Healthy Home Menu ( English version). They will be presented by students during the visit. Should be add on eTwinning.

- bring presentations and eco-games on HEALTH (English version). They will be presented by students during the visit. Teachers will provide lessons .

- Sanya will present graphic proposal of Ecopedia and we will discuss it. The deadline for all partners to add on eTwinning all lesson plans is 31st March 2019, so Sanya has enough time to create the final version of Ecopedia and send it to partner schools ( till 30th April). Partner schools will translate all lesson plans into their native languages , so the Ecopedia consists of 2 language version (English+ native language) and put it in the school libraries. English version should be add on eTwinning. All the lessons plans posted on Etwinning should be translated at once.

- In September Dutch school will inform us about the date of the visit in the Netherlands.

- bring presentations in English on ways of segregation of waste materials and what are the sybbols of containers for waste in your countries. The students will present them during the visit and after they will be post on eTwinning. It is one of the project results.

4. All partners will add on eTwinning presentations HUUB ( 10th June)

5. In all partner schools during the 3rd year of the project Eco weeks should take place. In the Netherlands and Latvia during the visits. In Poland, Italy and Slovenia until May) Ecoweeks will take place in chosen dates and they will inform the Polish coordinator.

5. The main aim of the project is the growth of students’ knowledge in Ecology for about 20 %. 1st- 15th April 2019 all partner school coordinators will distribute students’ questionnaires and send the results to Polish coordinator. It will be exactly the same questionnaire which we used to test all students’ level of knowledge when we started the project. The comparison of those 2 results from the questionnaires will answer to the question – if the project’s aim was achieved. After the visit in Sicily check the questions in the questionnaire to work with students for the next year (if it is necessary)so the students would answer them easily.