**Table 1. Classification of digital resources and materials.**

|  |  |  |
| --- | --- | --- |
| **Type** | **Authentic / Teaching-oriented** | **Examples used in CLIL** |
| **Hardware (physical devices)** | Both | PCs, laptops, tablets, mobile phones, interactive whiteboards, scanners, cameras, etc. |
| **Software (programmes for creating, running, managing and editing content)** | Both | Browsers, office suits, media players, multimedia software, editors, etc. |
| **Files (created, run, managed and edited by software)** | Both | Books, music, films, podcasts, etc. |
| **1.0 content websites and applications** | Both | Of newspapers, institutions, companies and products; search engines; online reference material (databases, dictionaries…); games; virtual environments; etc. |
| **2.0 content websites and applications** | Both | Blogs, wikis, message boards, listing sites, video sharing sites, etc. |
| **Social media**  | Both | Virtual communities, social networks, etc.  |
| **Communication services** | Both | E-mailing, videoconferencing, instant messaging, etc. |
| **Online learning environments**  | Teaching-oriented | Virtual Learning Environments (VLEs), webquests, online lesson plans, digital textbooks, educational apps, etc. |

Table 2. Rotated component loadings

|  |  |  |
| --- | --- | --- |
|  | Teachers  | Students |
| 1 | 2 | 1 | 2 |
| 1. Authetic materials for bilingual teaching are used | 0.323 | **0.780** | **0.626** | -0.053 |
| 2. Authetic materials for bilingual teaching are adapted | **0.729** | 0.152 | **0.629** | -0.100 |
| 3. Bilingual teaching materials are interesting and innovative | -0.007 | **0.896** | **0.722** | 0.155 |
| 4. Bilingual teachers work in collaboration to prepare and deliver the bilingual teaching materials in class | 0.545 | 0.532 | **0.745** | 0.038 |
| 5. The bilingual teaching materials used follow communicative principles | -0.175 | **0.694** | **0.571** | 0.467 |
| 6. Attention to diversity is always taken into account when bilingual teaching materials are being designed | 0.007 | **0.846** | **0.616** | 0.273 |
| 7. Multimedia software is used in class | **0.369** | -0.174 | 0.274 | **0.767** |
| 8. Online reference materials are used in class | **0.430** | 0.035 | 0.213 | **0.777** |
| 9. Blogs, wikis and webquest are used in class | **0.848** | 0.083 | -0.014 | **0.718** |
| 10. Interactive whiteboards are used in class | **0.850** | -0.109 | -0.051 | **0.425** |
| 11. Computer-mediated communication is used in class (e.g. e-Twinning) | **0.618** | 0.098 | **0.372** | 0.154 |

Figure 1. Component loadings plot (TEACHERS)



Figure 2. Component loadings plot (LEARNERS)

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Table 3. Percentage of use of digital resources and materials.

|  |  |  |
| --- | --- | --- |
|  | **Primary Education** | **Secondary Education** |
| Teachers | Learners | Teachers | Learners |
| **7. Multimedia software is used in class** | Strongly disagree/ Disagree |  | 13,3 | 38,1 | 33.3 |
| Agree/ Strongly agree | 100 | 86,9 | 61.9 | 66.7 |
| **8. Online reference materials are used in class** | Strongly disagree/ Disagree |  | 26,5 | 4.8 | 11.6 |
| Agree/ Strongly agree | 100 | 73,6 | 95.3 | 88.4 |
| **9. Blogs, wikis and webquests are used in class** | Strongly disagree/ Disagree | 11,8 | 33,8 | 28.6 | 11.5 |
| Agree/ Strongly agree | 88,2 | **66,2** | 71.4 | **88.4** |
| **10. Interactive whiteboards are used in class** | Strongly disagree/ Disagree | 5,9 | 17,7 | 9.5 | 11.6 |
| Agree/ Strongly agree | 94,2 | 82,4 | 90.4 | 88.4 |
| **11. Computer-mediated communication is used in class (e.g., e-Twinning)** | Strongly disagree/ Disagree | 64,4 | 83,2 | 52.3 | 47.8 |
| Agree/ Strongly agree | 35,3 | **16,2** | 47.6 | **52.3** |

Table 4. Mean, standard deviation and differences between primary and secondary students.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Year 6 in P.E. / Year 4in S.E. | Mean | Standard deviation | Sign |
| 1. Authetic materials for bilingual teaching are used |  PE | 2.49 | 1.015 | ***0.001*** |
| SE | 3.14 | 0.809 |
| 2. Authetic materials for bilingual teaching are adapted | PE | 2.81 | 0.868 | 0.841 |
| SE | 2.84 | 0.980 |
| 3. Bilingual teaching materials are interesting and innovative | PE | 2.62 | 0.962 | ***0.020*** |
| SE | 2.96 | 0.695 |
| 4. Bilingual teachers work in collaboration to prepare and deliver the bilingual teaching materials in class | PE | 2.54 | 1.177 | ***0.001*** |
| SE | 3.20 | 0.719 |
| 5. The bilingual teaching materials used follow communicative principles | PE | 2.59 | 1.096 | ***0.002*** |
| SE | 3.07 | 0.649 |
| 6. Attention to diversity is always taken into account when bilingual teaching materials are being designed | PE | 2.22 | 1.063 | ***0.001*** |
| SE | 2.88 | 0.738 |
|  7. Multimedia software is used in class | PE | 3.29 | 0.734 | ***0.011*** |
| SE | 3.59 | 0.626 |
| 8. Online reference materials are used in class | PE | 2.93 | 0.869 | ***0.001*** |
| SE | 3.43 | 0.696 |
| 9. Blogs wikis and webquests are used in class | PE | 2.81 | 1.055 | ***0.004*** |
| SE | 3.28 | 0.784 |
| 10. Interactive whiteboards are used in class | PE | 3.79 | 0.505 | ***0.009*** |
| SE | 3.48 | 0.851 |
| 11. Computer-mediated communication is used in class (e.g.. e-Twinning) | PE | 1.44 | 0.870 | ***0.001*** |
| SE | 2.52 | 1.093 |

Tabla 5. Cross matrix from class observation and semi-structured interviews.

|  |  |  |
| --- | --- | --- |
|  | **Primary Education** | **Secondary Education** |
| STUDENTS | TEACHERS | STUDENTS | TEACHERS |
| Authentic materials |  - | They use both authentic and adapted materials | All kinds of materials are used |
| Adapted or hand-made materials | Non-linguistic-area worksheets and notebook |
| Books | In the foreign language class | In the foreign language class | In the foreign language class Non-linguistic-area books if they find any |
| Online reference materials | Only 1 school | Some schools | All of them use online reference materials |
| Blogs |  - | Some schools | Some of them have blogs, others use websites or wikis |
| Interactive whiteboard | 2 schools, but mainly as a projector | Mainly as a projector | All of them use interactive whiteboards but mainly as a projector |

Table 6. Pearson correlations. Extramural activities (primary school level).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Books | Magazines | TV Shows | Films | Internet | Videogames | Songs |
| Books | 1 | -0.095 | **0.780\*\*** | 0.070 | **0.358\*\*** | 0.131 | **0.614\*\*** |
| Magazines |  | 1 | -0.082 | 0.204 | -0.199 | -0.125 | -0.087 |
| TV Shows |  |  | 1 | 0.083 | 0.243 | 0.182 | **0.525\*\*** |
| Films |  |  |  | 1 | **0.342\*\*** | -0.102 | **0.258\*** |
| Internet |  |  |  |  | 1 | -0.097 | **0.480\*\*** |
| Videogames |  |  |  |  |  | 1 | 0.194 |
| Songs |  |  |  |  |  |  | 1 |

\*\* Significant correlation at 0.01 (bilateral).

\* Significant correlation at 0.05 (bilateral).

Table 7. Pearson correlations. Secondary Education extramural activities.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Books | Magazines | TV Shows | Films | Internet | Video Games | Songs |
| Books | 1 | **,511\*\*** | ,252\* | **,413\*\*** | **,308\*\*** | -,006 | -,015 |
| Magazines |  | 1 | ,152 | **,365\*\*** | **,534\*\*** | **,302\*\*** | **,401\*\*** |
|  TV Shows |  |  | 1 | ,096 | ,097 | ,182 | ,083 |
| Films |  |  |  | 1 | ,185 | -,099 | -,052 |
| Internet |  |  |  |  | 1 | **,427\*\*** | **,601\*\*** |
| Video games |  |  |  |  |  | 1 | ,416\*\* |
| Songs |  |  |  |  |  |  | 1 |

\*\* Significant correlation at 0.01 (bilateral).

\* Significant correlation at 0.05 (bilateral).