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| --- | --- | --- | --- |
| Identifier | Description | Predictor type | Memo |
| STU\_SCI\_LITERACY | Student’s scientific literacy score | Numeric | Student’s scientific literacy performance based on a subset of various test items |
| AGE | Student’s age | Numeric |  |
| ECON\_SOCIAL\_CUL | Economic, social, and cultural status. | Numeric | A composite score of different questionnaires |
| ED\_RESOURCE | Availability of educational resources at home. | Numeric | A composite score of a questionnaire |
| ENV\_AWARENESS | Awareness of environmental matters | Numeric | A composite score of different questionnaires |
| HOUSE\_POS | House possessions | Numeric | Students reported the availability of 16 household items at home |
| PARENT\_ED | Parents’ education level | Numeric | Parents’ highest level of education |
| REPEAT | Grade repetition if applicable. | Categorical | REPEAT took the value of “1” if the student had repeated a grade |
| SCI\_KNOWLEDGE | Student’s knowledge about the nature, development, and justification of science. | Numeric | A composite score of different science tests |
| SELF\_EFFICACY | Student’s self-efficacy about science | Numeric | Likert score |
| SEX | Student’s sex | Categorical | Currently 1: male and 2: female. Must be changed to 0 and 1 (dummy coding). |
| ST022Q01TA | Language spoken at home. Let’s change the variable name to “LANGUAGE” | Categorical | 1 indicates English and 2 is Other language(s). It must be changed to 0 and 1. |
| TECH\_RESOURCE | Availability of technological resources at home. | Numeric | A composite score of a questionnaire |
| WEALTH | Family wealth. | Numeric | A composite score of a questionnaire |

More information about the PISA dataset:

<https://www.oecd-ilibrary.org/sites/0a428b07-en/index.html?itemId=/content/component/0a428b07-en>

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