# Appendix II Students’ and Teachers’ Basic Information of 28 Lessons

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| **Label** | **Location** | **Teachers’ Basic Information** | | | **Students’ Basic Information** | | | |
| **Gender** | **Working year(s)** | **Professional title** | **Grade** | **Class** | **Gender ratio (female: male)** | **Prior knowledge** |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| G1 | XC | M | 16 | Senior | 8 | 6 | 14:19 | Triangle |
| G2 | HD | F | 3 | Junior | 8 | 2 | 21:17 | Graphic transformation |
| S1 | FS | F | 9 | Intermediate | 8 | 2 | 20:21 | Average |
| G3 | DC | M | 17 | Senior | 8 | 1 | 19:20 | Triangle |
| G4 | DC | M | 7 | Intermediate | 8 | 2 | 20:18 | Triangle |
| G5 | FT | M | 7 | Intermediate | 8 | 4 | 20:19 | Triangle |
| G6 | MTG | F | 6 | Intermediate | 8 | 5 | 16:21 | Angle bisector |
| G7 | FS | F | 16 | Senior | 8 | 5 | 20:22 | Isosceles triangle |
| G8 | SY | M | 7 | Intermediate | 8 | 4 | 19:24 | Linear function |
| G9 | DC | F | 6 | Intermediate | 8 | 5 | 18:18 | Linear function |
| G10 | DC | M | 5 | Intermediate | 8 | 4 | 17:24 | Linear function |
| A1 | DC | M | 8 | Intermediate | 8 | 6 | 21:19 | Polymer |
| A2 | DC | M | 9 | Intermediate | 8 | 6 | 20:18 | Equation |
| A3 | HD | F | 8 | Intermediate | 8 | 2 | 21:20 | Equation |
| A4 | HD | F | 16 | Senior | 8 | 8 | 18:22 | Quadratic root |
| G11 | HD | F | 14 | Senior | 8 | 10 | 15:24 | Function representation |
| A5 | HD | M | 20 | Senior | 8 | 2 | 21:20 | Pythagorean theorem |
| A6 | CP | F | 8 | Intermediate | 8 | 9 | 20:25 | Pythagorean theorem |
| A7 | DC | M | 7 | Intermediate | 8 | 12 | 15:19 | Pythagorean theorem |
| A8 | CY | M | 15 | Senior | 8 | 11 | 22:16 | Pythagorean theorem |
| G12 | HD | F | 8 | Intermediate | 8 | 8 | 20:20 | Parallelogram |
| S2 | CP | M | 22 | Senior | 8 | 5 | 19:22 | Discrete and concentrated trend of data |
| A9 | CY | M | 9 | Intermediate | 8 | 11 | 20:21 | Linear function |
| A10 | CY | M | 8 | Intermediate | 8 | 9 | 19:17 | Linear function |
| S3 | CP | F | 7 | Intermediate | 8 | 3 | 21:24 | Mean |
| S4 | TZ | F | 9 | Intermediate | 8 | 5 | 19:21 | Mean |
| S5 | SY | F | 7 | Intermediate | 8 | 6 | 22:23 | Range |
| S6 | CP | M | 7 | Intermediate | 8 | 1 | 28:20 | Range |