Survey of public attitudes toward astronomy in Japan (Takanashi et al.)
General questions
https://survey.tenpla.net

A1_1) How much are you interested in science and technology?

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | very interested | 155 | 7.8 |
| 2 | quite interested | 521 | 26.1 |
| 3 | neither interested not disinterested | 589 | 29.5 |
| 4 | not interested | 304 | 15.2 |
| 5 | not interested at all | 304 | 15.2 |
| 6 | don't know | 127 | 6.4 |

A1_2) Do you actively search for information about science and technology?

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | yes | 2000 | 100.0 |
| 2 | no | 424 | 21.2 |
| 3 | don't know | 1305 | 65.3 |

A1_3) When you have looked for information science about and technology in the past, have you generally been able to find what you were looking for?

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all | 2000 | 100.0 |  |
| 1 | yes, and it tends to be easy to understand | 264 | 13.2 |
| 2 | yes, but it is often difficult to understand | 599 | 30.0 |
| 3 | no, I often can't find what I am looking for | 326 | 16.3 |
| 4 | don't know | 811 | 40.6 |

## A1_4) How interested are you in the items? /Mythology



| 1 | not interested at all | 514 | 25.7 |
| :--- | :--- | ---: | ---: |
| 2 | not interested | 269 | 13.5 |
| 3 | not very interested | 377 | 18.9 |
| 4 | neither interested not disinterested | 391 | 19.6 |
| 5 | quite interested | 275 | 13.8 |
| 6 | interested | 115 | 5.8 |
| 7 | very interested | 59 | 3.0 |

## A1_4) How interested are you in the items? /Astrology

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | not interested at all | 2000 | 100.0 |
| 2 | not interested | 607 | 30.4 |
| 3 | not very interested | 305 | 15.3 |
| 4 | neither interested not disinterested | 334 | 16.7 |
| 5 | quite interested | 338 | 16.9 |
| 6 | interested | 238 | 11.9 |
| 7 | very interested | 127 | 6.4 |

## A1_4) How interested are you in the items? /Japanese Culture

|  | $N$ | $\%$ |  |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | not interested at all | 282 | 14.1 |
| 2 | not interested | 161 | 8.1 |
| 3 | not very interested | 277 | 13.9 |
| 4 | neither interested not disinterested | 442 | 22.1 |
| 5 | quite interested | 453 | 22.7 |
| 6 | interested | 274 | 13.7 |
| 7 | very interested | 111 | 5.6 |

## A1_4) How interested are you in the items? /Philosophy

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| N all |  | 2000 | 100.0 |
| 1 | not interested at all | 491 | 24.6 |
| 2 | not interested | 294 | 14.7 |
| 3 | not very interested | 390 | 19.5 |


| 4 | neither interested not disinterested | 436 | 21.8 |
| ---: | :--- | ---: | ---: |
| 5 | quite interested | 235 | 11.8 |
| 6 | interested | 107 | 5.4 |
| 7 | very interested | 47 | 2.4 |

## A1_4) How interested are you in the items? /Religion

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | not interested at all | 708 | 35.4 |
| 2 | not interested | 315 | 15.8 |
| 3 | not very interested | 359 | 18.0 |
| 4 | neither interested not disinterested | 364 | 18.2 |
| 5 | quite interested | 158 | 7.9 |
| 6 | interested | 61 | 3.1 |
| 7 | very interested | 35 | 1.8 |

## A1_4) How interested are you in the items? /Art

|  | N | 0 |  |
| :--- | :--- | ---: | ---: |
| (all |  | 2000 | 100.0 |
| 1 | not interested at all | 340 | 17.0 |
| 2 | not interested | 201 | 10.1 |
| 3 | not very interested | 320 | 16.0 |
| 4 | neither interested not disinterested | 443 | 22.2 |
| 5 | quite interested | 361 | 18.1 |
| 6 | interested | 210 | 10.5 |
| 7 | very interested | 125 | 6.3 |

## A1_4) How interested are you in the items? /Climate Change

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | not interested at all | 2000 | 100.0 |
| 2 | not interested | 283 | 14.2 |
| 3 | not very interested | 139 | 7.0 |
| 4 | neither interested not disinterested | 265 | 13.3 |
| 5 | quite interested | 426 | 21.3 |
| 6 | interested | 519 | 26.0 |
| 7 | very interested | 269 | 13.5 |

## A1_4) How interested are you in the items? /Space exploration

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | not interested at all | 2000 | 100.0 |
| 2 | not interested | 358 | 17.9 |
| 3 | not very interested | 194 | 9.7 |
| 4 | neither interested not disinterested | 337 | 16.9 |
| 5 | quite interested | 414 | 20.7 |
| 6 | interested | 412 | 20.6 |


| 7 | very interested | 92 | 4.6 |
| :--- | :--- | ---: | ---: |

A1_4) How interested are you in the items? /Astronomy

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | not interested at all | 399 | 20.0 |
| 2 | not interested | 202 | 10.1 |
| 3 | not very interested | 350 | 17.5 |
| 4 | neither interested not disinterested | 445 | 22.3 |
| 5 | quite interested | 372 | 18.6 |
| 6 | interested | 156 | 7.8 |
| 7 | very interested | 76 | 3.8 |

## A1_4) How interested are you in the items? /Physics

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | not interested at all | 480 | 24.0 |
| 2 | not interested | 259 | 13.0 |
| 3 | not very interested | 392 | 19.6 |
| 4 | neither interested not disinterested | 418 | 20.9 |
| 5 | quite interested | 284 | 14.2 |
| 6 | interested | 113 | 5.7 |
| 7 | very interested | 54 | 2.7 |

A1_5) Have you studied the Universe using any of the learning opportunities? /Early Childhood Education

|  | $N$ | $\%$ |  |
| :--- | :--- | ---: | ---: |
| 1 | yes | 2000 | 100.0 |
| 2 | no | 124 | 6.2 |
| 3 | don't know | 1279 | 64.0 |

## A1_5) Have you studied the Universe using any of the learning opportunities? /Primary Education

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| N all |  | 2000 | 100.0 |
| 1 | yes | 703 | 35.2 |
| 2 | no | 876 | 43.8 |


| 3 | don't know | 421 | 21.1 |
| :--- | :--- | ---: | ---: |

A1_5) Have you studied the Universe using any of the learning opportunities? /Secondary

## Education

|  | $N$ | $\%$ |  |
| ---: | :--- | ---: | ---: |
|  | N | 2000 | 100.0 |
| 1 | yes | 768 | 38.4 |
| 2 | no | 842 | 42.1 |
| 3 | don't know | 390 | 19.5 |

A1_5) Have you studied the Universe using any of the learning opportunities? /Higher Education

|  | $N$ | $\%$ |  |
| :--- | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 450 | 22.5 |
| 2 | no | 1159 | 58.0 |
| 3 | don't know | 391 | 19.6 |

A1_5) Have you studied the Universe using any of the learning opportunities? /Postgraduate Education

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | yes | 2000 | 100.0 |
| 2 | no | 73 | 3.7 |
| 3 | don't know | 1573 | 78.7 |

A1_5) Have you studied the Universe using any of the learning opportunities? /Learn from Family

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 227 | 11.4 |
| 2 | no | 1419 | 71.0 |
| 3 | don't know | 354 | 17.7 |

A1_5) Have you studied the Universe using any of the learning opportunities? /Lifelong Learning

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 161 | 8.1 |
| 2 | no | 1486 | 74.3 |
| 3 | don't know | 353 | 17.7 |

A1_6) Can you explain the concepts related to the stars and the Universe? /Waxing and Waning

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| (all |  | 2000 | 100.0 |
| 1 | can not explain at all | 553 | 27.7 |
| 2 | can not explain | 356 | 17.8 |
| 3 | can not explain much | 335 | 16.8 |
| 4 | don't know if I can explain | 238 | 11.9 |


| 5 | can explain a little | 327 | 16.4 |
| ---: | :--- | ---: | ---: |
| 6 | can explain | 149 | 7.5 |
| 7 | Can confidently explain | 42 | 2.1 |

## A1_6) Can you explain the concepts related to the stars and the Universe? /Life of a Star

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | can not explain at all | 784 | 39.2 |
| 2 | can not explain | 438 | 21.9 |
| 3 | can not explain much | 274 | 13.7 |
| 4 | don't know if I can explain | 228 | 11.4 |
| 5 | can explain a little | 196 | 9.8 |
| 6 | can explain | 60 | 3.0 |


| 7 | Can confidently explain | 20 | 1.0 |
| :--- | :--- | ---: | ---: |

## A1_6) Can you explain the concepts related to the stars and the Universe? /the Galaxy

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| (all |  | 2000 | 100.0 |
| 1 | can not explain at all | 681 | 34.1 |
| 2 | can not explain | 403 | 20.2 |
| 3 | can not explain much | 345 | 17.3 |
| 4 | don't know if I can explain | 239 | 12.0 |
| 5 | can explain a little | 238 | 11.9 |
| 6 | can explain | 74 | 3.7 |
| 7 | Can confidently explain | 20 | 1.0 |

## A1_6) Can you explain the concepts related to the stars and the Universe? /Birth of the Universe

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | can not explain at all | 2000 | 100.0 |
| 2 | can not explain | 777 | 38.9 |
| 3 | can not explain much | 425 | 21.3 |
| 4 | don't know if I can explain | 304 | 15.2 |
| 5 | can explain a little | 226 | 11.3 |
| 6 | can explain | 203 | 10.2 |
| 7 | Can confidently explain | 43 | 2.2 |

## A1_6) Can you explain the concepts related to the stars and the Universe? /Blackhole

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | can not explain at all | 2000 | 100.0 |
| 2 | can not explain | 636 | 31.8 |
| 3 | can not explain much | 427 | 21.4 |
| 4 | don't know if I can explain | 336 | 16.8 |
| 5 | can explain a little | 248 | 12.4 |
| 6 | can explain | 252 | 12.6 |
| 7 | Can confidently explain | 73 | 3.7 |


|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | can not explain at all | 2000 | 100.0 |
| 2 | can not explain | 867 | 43.4 |
| 3 | can not explain much | 448 | 22.4 |
| 4 | don't know if I can explain | 274 | 13.7 |
| 5 | can explain a little | 224 | 11.2 |
| 6 | can explain | 118 | 5.9 |


| 7 | Can confidently explain | 21 | 1.1 |
| :--- | :--- | ---: | ---: |

A1_6) Can you explain the concepts related to the stars and the Universe? /Gravitational Wave

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | can not explain at all | 878 | 43.9 |
| 2 | can not explain | 477 | 23.9 |
| 3 | can not explain much | 287 | 14.4 |
| 4 | don't know if I can explain | 216 | 10.8 |
| 5 | can explain a little | 92 | 4.6 |
| 6 | can explain | 36 | 1.8 |
| 7 | Can confidently explain | 14 | 0.7 |

## A1_6) Can you explain the concepts related to the stars and the Universe? /Light Pollution

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | can not explain at all | 911 | 45.6 |
| 2 | can not explain | 465 | 23.3 |
| 3 | can not explain much | 249 | 12.5 |
| 4 | don't know if I can explain | 196 | 9.8 |
| 5 | can explain a little | 118 | 5.9 |
| 6 | can explain | 42 | 2.1 |
| 7 | Can confidently explain | 19 | 1.0 |

A1_6) Can you explain the concepts related to the stars and the Universe? /Space Weather Forecast

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | can not explain at all | 2000 | 100.0 |
| 2 | can not explain | 972 | 48.6 |
| 3 | can not explain much | 470 | 23.5 |
| 4 | don't know if I can explain | 280 | 14.0 |
| 5 | can explain a little | 184 | 9.2 |
| 6 | can explain | 58 | 2.9 |
| 7 | Can confidently explain | 26 | 1.3 |

A1_6) Can you explain the concepts related to the stars and the Universe? /Climate Change

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | can not explain at all | 585 | 29.3 |
| 2 | can not explain | 370 | 18.5 |
| 3 | can not explain much | 369 | 18.5 |
| 4 | don't know if I can explain | 302 | 15.1 |
| 5 | can explain a little | 277 | 13.9 |
| 6 | can explain | 73 | 3.7 |
| 7 | Can confidently explain | 24 | 1.2 |

## A1_7) How do you find information about the Universe? /Website

|  |  | $N$ | $\%$ |
| :--- | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 1222 | 61.1 |
| 2 | no | 508 | 25.4 |
| 3 | don't know | 270 | 13.5 |

## A1_7) How do you find information about the Universe? /Apps

|  | $N$ | $\%$ |  |
| ---: | :--- | ---: | ---: |
|  | all | 2000 | 100.0 |
| 1 | yes | 178 | 8.9 |
| 2 | no | 1444 | 72.2 |
| 3 | don't know | 378 | 18.9 |

## A1_7) How do you find information about the Universe? /SNS

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 353 | 17.7 |
| 2 | no | 1299 | 65.0 |
| 3 | don't know | 348 | 17.4 |

## A1_7) How do you find information about the Universe? /Online Video Contents

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 562 | 28.1 |
| 2 | no | 1092 | 54.6 |
| 3 | don't know | 346 | 17.3 |

## A1_7) How do you find information about the Universe? /Book and Magazine

|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 651 | 32.6 |
| 2 | no | 1008 | 50.4 |
| 3 | don't know | 341 | 17.1 |


|  |  | N | $\%$ |
| :--- | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 360 | 18.0 |
| 2 | no | 1274 | 63.7 |
| 3 | don't know | 366 | 18.3 |

## A1_7) How do you find information about the Universe? /Radio

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 166 | 8.3 |
| 2 | no | 1472 | 73.6 |


| 3 | don't know | 362 | 18.1 |
| :--- | :--- | ---: | ---: |

## A1_7) How do you find information about the Universe? /TV Program

|  | $N$ | $\%$ |  |
| ---: | :--- | ---: | ---: |
|  | n | 2000 | 100.0 |
| 1 | yes | 734 | 36.7 |
| 2 | no | 944 | 47.2 |
| 3 | don't know | 322 | 16.1 |

## A1_7) How do you find information about the Universe? /Friend and Family

|  | $N$ | $\%$ |  |
| :--- | :--- | ---: | ---: |
|  | all | 2000 | 100.0 |
| 1 | yes | 455 | 22.8 |
| 2 | no | 1165 | 58.3 |
| 3 | don't know | 380 | 19.0 |

## A1_7) How do you find information about the Universe? /Expert

|  | $N$ | $\%$ |  |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | yes | 171 | 8.6 |
| 2 | no | 1407 | 70.4 |
| 3 | don't know | 422 | 21.1 |

A2_1) Please select the items that you own. (MA)

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | Goods and Fashion Items with Starry Design | 2000 | 100.0 |
| 2 | Planisphere | 141 | 7.1 |
| 3 | Home Planetarium | 151 | 7.6 |
| 4 | Binocular | 56 | 2.8 |
| 5 | Solar Eclipse Glasses | 314 | 15.7 |
| 6 | Telescope | 116 | 5.8 |
| 7 | Book | 98 | 4.9 |
| 8 | Magazine | 134 | 6.7 |
| 9 | Video Media | 74 | 3.7 |
| 10 | Apps | 47 | 2.4 |


| 11 | I do not have any of them | 1411 | 70.6 |
| :--- | :--- | ---: | ---: |

A2_2) How much do you want the items? /Goods and Fashion Items with Starry Design

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| N all |  | 2000 | 100.0 |
| 1 | do not want at all | 590 | 29.5 |
| 2 | do not want | 322 | 16.1 |
| 3 | do not want much | 268 | 13.4 |


| 4 | can not say I want or do not want | 576 | 28.8 |
| ---: | :--- | ---: | ---: |
| 5 | want a little | 156 | 7.8 |
| 6 | want | 65 | 3.3 |
| 7 | want very much | 23 | 1.2 |

## A2_2) How much do you want the items? /Planisphere

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want at all | 589 | 29.5 |
| 2 | do not want | 294 | 14.7 |
| 3 | do not want much | 284 | 14.2 |
| 4 | can not say I want or do not want | 533 | 26.7 |
| 5 | want a little | 221 | 11.1 |
| 6 | want | 59 | 3.0 |
| 7 | want very much | 20 | 1.0 |

## A2_2) How much do you want the items? /Home Planetarium

|  | $N$ | $\%$ |  |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want at all | 545 | 27.3 |
| 2 | do not want | 284 | 14.2 |
| 3 | do not want much | 250 | 12.5 |
| 4 | can not say I want or do not want | 496 | 24.8 |
| 5 | want a little | 291 | 14.6 |
| 6 | want | 85 | 4.3 |
| 7 | want very much | 49 | 2.5 |

## A2_2) How much do you want the items? /Binocular

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| N all |  | 2000 | 100.0 |
| 1 | do not want at all | 515 | 25.8 |
| 2 | do not want | 225 | 11.3 |
| 3 | do not want much | 222 | 11.1 |
| 4 | can not say I want or do not want | 563 | 28.2 |
| 5 | want a little | 315 | 15.8 |
| 6 | want | 122 | 6.1 |


| 7 | want very much | 38 | 1.9 |
| :--- | :--- | ---: | ---: |

A2_2) How much do you want the items? /Solar Eclipse Glasses

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | do not want at all | 2000 | 100.0 |
| 2 | do not want | 569 | 28.5 |
| 3 | do not want much | 283 | 14.2 |


| 4 | can not say I want or do not want | 580 | 29.0 |
| :--- | :--- | ---: | ---: |
| 5 | want a little | 227 | 11.4 |
| 6 | want | 73 | 3.7 |
| 7 | want very much | 15 | 0.8 |

## A2_2) How much do you want the items? /Telescope

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want at all | 541 | 27.1 |
| 2 | do not want | 243 | 12.2 |
| 3 | do not want much | 229 | 11.5 |
| 4 | can not say I want or do not want | 495 | 24.8 |
| 5 | want a little | 325 | 16.3 |
| 6 | want | 107 | 5.4 |
| 7 | want very much | 60 | 3.0 |

## A2_2) How much do you want the items? /Book

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| N all |  | 2000 | 100.0 |
| 1 | do not want at all | 568 | 28.4 |
| 2 | do not want | 251 | 12.6 |
| 3 | do not want much | 258 | 12.9 |
| 4 | can not say I want or do not want | 585 | 29.3 |
| 5 | want a little | 225 | 11.3 |
| 6 | want | 83 | 4.2 |
| 7 | want very much | 30 | 1.5 |

## A2_2) How much do you want the items? /Magazine

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| N all |  | 2000 | 100.0 |
| 1 | do not want at all | 581 | 29.1 |
| 2 | do not want | 268 | 13.4 |
| 3 | do not want much | 266 | 13.3 |
| 4 | can not say I want or do not want | 605 | 30.3 |
| 5 | want a little | 199 | 10.0 |
| 6 | want | 62 | 3.1 |


| 7 | want very much | 19 | 1.0 |
| :--- | :--- | ---: | ---: |

A2_2) How much do you want the items? /Video Media

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want at all | 590 | 29.5 |
| 2 | do not want | 262 | 13.1 |
| 3 | do not want much | 254 | 12.7 |
| 4 | can not say I want or do not want | 595 | 29.8 |
| 5 | want a little | 201 | 10.1 |
| 6 | want | 72 | 3.6 |
| 7 | want very much | 26 | 1.3 |

## A2_2) How much do you want the items? /Apps

|  |  | $N$ | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | do not want at all | 2000 | 100.0 |
| 2 | do not want | 591 | 29.6 |
| 3 | do not want much | 273 | 13.7 |
| 4 | can not say I want or do not want | 267 | 13.4 |
| 5 | want a little | 634 | 31.7 |
| 6 | want | 163 | 8.2 |
| 7 | want very much | 56 | 2.8 |

A2_3) Please select the facilities you have visited since you became an adult (over 18 years old).
(MA)

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | Library | 2000 | 100.0 |
| 2 | Cinema | 1204 | 60.2 |
| 3 | Aquarium and Zoo | 1373 | 68.7 |
| 4 | Art Museum | 1298 | 64.9 |
| 5 | Museum | 1023 | 51.2 |
| 6 | Science Center | 912 | 45.6 |
| 7 | Planetarium | 685 | 34.3 |
| 8 | Observatory | 760 | 38.0 |
| 9 | Launch Complex | 206 | 10.3 |
| 10 | Football Stadium | 43 | 2.2 |
| 11 | I do not have any of them | 359 | 18.0 |

A2_4) How much would you like to visit the facilities? /Library

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to visit at all | 141 | 7.1 |
| 2 | do not want to visit | 89 | 4.5 |
| 3 | do not want to visit much | 154 | 7.7 |


| 4 | can not say I want or do not want | 610 | 30.5 |
| :--- | :--- | ---: | ---: |
| 5 | want to visit a little | 373 | 18.7 |
| 6 | want to visit | 420 | 21.0 |
| 7 | want to visit very much | 213 | 10.7 |

## A2_4) How much would you like to visit the facilities? /Cinema

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to visit at all | 122 | 6.1 |
| 2 | do not want to visit | 86 | 4.3 |
| 3 | do not want to visit much | 145 | 7.3 |
| 4 | can not say I want or do not want | 503 | 25.2 |
| 5 | want to visit a little | 349 | 17.5 |
| 6 | want to visit | 506 | 25.3 |
| 7 | want to visit very much | 289 | 14.5 |

## A2 4) How much would you like to visit the facilities? /Aquarium and Zoo

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | do not want to visit at all | 2000 | 100.0 |
| 2 | do not want to visit | 95 | 4.8 |
| 3 | do not want to visit much | 62 | 3.1 |
| 4 | can not say I want or do not want | 113 | 5.7 |
| 5 | want to visit a little | 492 | 24.6 |
| 6 | want to visit | 429 | 21.5 |
| 7 | want to visit very much | 513 | 25.7 |

## A2_4) How much would you like to visit the facilities? /Art Museum

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to visit at all | 158 | 7.9 |
| 2 | do not want to visit | 89 | 4.5 |
| 3 | do not want to visit much | 170 | 8.5 |
| 4 | can not say I want or do not want | 579 | 29.0 |
| 5 | want to visit a little | 391 | 19.6 |
| 6 | want to visit | 400 | 20.0 |


| 7 | want to visit very much | 213 | 10.7 |
| :--- | :--- | ---: | ---: |

## A2_4) How much would you like to visit the facilities? /Museum

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to visit at all | 143 | 7.2 |
| 2 | do not want to visit | 88 | 4.4 |
| 3 | do not want to visit much | 170 | 8.5 |
| 4 | can not say I want or do not want | 554 | 27.7 |
| 5 | want to visit a little | 432 | 21.6 |
| 6 | want to visit | 407 | 20.4 |
| 7 | want to visit very much | 206 | 10.3 |

## A2_4) How much would you like to visit the facilities? /Science Center

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | do not want to visit at all | 2000 | 100.0 |
| 2 | do not want to visit | 159 | 8.0 |
| 3 | do not want to visit much | 94 | 4.7 |
| 4 | can not say I want or do not want | 184 | 9.2 |
| 5 | want to visit a little | 613 | 30.7 |
| 6 | want to visit | 441 | 22.1 |
| 7 | want to visit very much | 336 | 16.8 |

## A2_4) How much would you like to visit the facilities? /Planetarium

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to visit at all | 147 | 7.4 |
| 2 | do not want to visit | 75 | 3.8 |
| 3 | do not want to visit much | 150 | 7.5 |
| 4 | can not say I want or do not want | 587 | 29.4 |
| 5 | want to visit a little | 427 | 21.4 |
| 6 | want to visit | 394 | 19.7 |
| 7 | want to visit very much | 220 | 11.0 |

## A2_4) How much would you like to visit the facilities? /Observatory

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to visit at all | 189 | 9.5 |
| 2 | do not want to visit | 94 | 4.7 |
| 3 | do not want to visit much | 201 | 10.1 |
| 4 | can not say I want or do not want | 667 | 33.4 |
| 5 | want to visit a little | 379 | 19.0 |
| 6 | want to visit | 316 | 15.8 |
| 7 | want to visit very much | 154 | 7.7 |

## A2_4) How much would you like to visit the facilities? /Launch Complex

| all |  | 2000 | 100.0 |
| ---: | :--- | ---: | ---: |
| 1 | do not want to visit at all | 263 | 13.2 |
| 2 | do not want to visit | 136 | 6.8 |
| 3 | do not want to visit much | 234 | 11.7 |
| 4 | can not say I want or do not want | 666 | 33.3 |
| 5 | want to visit a little | 294 | 14.7 |
| 6 | want to visit | 251 | 12.6 |
| 7 | want to visit very much | 156 | 7.8 |

## A2_4) How much would you like to visit the facilities? /Football Stadium

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to visit at all | 465 | 23.3 |
| 2 | do not want to visit | 207 | 10.4 |
| 3 | do not want to visit much | 288 | 14.4 |
| 4 | can not say I want or do not want | 601 | 30.1 |
| 5 | want to visit a little | 199 | 10.0 |
| 6 | want to visit | 152 | 7.6 |
| 7 | want to visit very much | 88 | 4.4 |

A2_5) Which of the activities have you done consciously? (MA)

|  | N |  | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | watch the Moon or Stars | 2000 | 100.0 |
| 2 | watch Shooting Star | 928 | 46.4 |
| 3 | watch Comet | 580 | 29.0 |
| 4 | watch Aurora | 233 | 11.7 |
| 5 | watch Lunar Eclipse | 81 | 4.1 |
| 6 | watch Solar Eclipse | 783 | 39.2 |
| 7 | watch Moon Rising | 704 | 35.2 |
| 8 | find Evening Star | 227 | 11.4 |
| 9 | watch Stars with Telescope | 262 | 13.1 |
| 10 | take Photo of Moon or Stars | 207 | 10.4 |
| 11 | I haven't done any of them | 235 | 11.8 |

## A2_6) How much do you want to try the activities? /watch the Moon or Stars

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 167 | 8.4 |
| 2 | do not want to do | 83 | 4.2 |
| 3 | do not want to do much | 115 | 5.8 |
| 4 | can not say I want or do not want | 614 | 30.7 |
| 5 | want to do a little | 461 | 23.1 |
| 6 | want to do | 387 | 19.4 |
| 7 | want to do very much | 173 | 8.7 |

A2_6) How much do you want to try the activities? /watch Shooting Star

|  | N |  | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 2000 | 100.0 |
| 2 | do not want to do | 167 | 8.4 |
| 3 | do not want to do much | 80 | 4.0 |
| 4 | can not say I want or do not want | 111 | 5.6 |
| 5 | want to do a little | 577 | 28.9 |
| 6 | want to do | 480 | 24.0 |
| 7 | want to do very much | 364 | 18.2 |

## A2_6) How much do you want to try the activities? /watch Comet

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 191 | 9.6 |
| 2 | do not want to do | 75 | 3.8 |
| 3 | do not want to do much | 136 | 6.8 |
| 4 | can not say I want or do not want | 632 | 31.6 |
| 5 | want to do a little | 443 | 22.2 |
| 6 | want to do | 336 | 16.8 |
| 7 | want to do very much | 187 | 9.4 |

## A2_6) How much do you want to try the activities? /watch Aurora

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 171 | 8.6 |
| 2 | do not want to do | 77 | 3.9 |
| 3 | do not want to do much | 110 | 5.5 |
| 4 | can not say I want or do not want | 542 | 27.1 |
| 5 | want to do a little | 413 | 20.7 |
| 6 | want to do | 343 | 17.2 |
| 7 | want to do very much | 344 | 17.2 |

## A2_6) How much do you want to try the activities? /watch Lunar Eclipse

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 173 | 8.7 |
| 2 | do not want to do | 80 | 4.0 |
| 3 | do not want to do much | 131 | 6.6 |
| 4 | can not say I want or do not want | 588 | 29.4 |
| 5 | want to do a little | 498 | 24.9 |
| 6 | want to do | 364 | 18.2 |
| 7 | want to do very much | 166 | 8.3 |

## A2_6) How much do you want to try the activities? /watch Solar Eclipse

| all |  | 2000 | 100.0 |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 175 | 8.8 |
| 2 | do not want to do | 90 | 4.5 |
| 3 | do not want to do much | 127 | 6.4 |
| 4 | can not say I want or do not want | 590 | 29.5 |
| 5 | want to do a little | 485 | 24.3 |
| 6 | want to do | 360 | 18.0 |
| 7 | want to do very much | 173 | 8.7 |

## A2_6) How much do you want to try the activities? /watch Moon Rising

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 2000 | 100.0 |
| 2 | do not want to do | 195 | 9.8 |
| 3 | do not want to do much | 104 | 5.2 |
| 4 | can not say I want or do not want | 158 | 7.9 |
| 5 | want to do a little | 831 | 41.6 |
| 6 | want to do | 356 | 17.8 |
| 7 | want to do very much | 250 | 12.5 |

## A2_6) How much do you want to try the activities? /find Evening Star

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 216 | 10.8 |
| 2 | do not want to do | 107 | 5.4 |
| 3 | do not want to do much | 182 | 9.1 |
| 4 | can not say I want or do not want | 849 | 42.5 |
| 5 | want to do a little | 334 | 16.7 |
| 6 | want to do | 222 | 11.1 |
| 7 | want to do very much | 90 | 4.5 |

## A2_6) How much do you want to try the activities? /watch Stars with Telescope

|  | N | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 2000 | 100.0 |
| 2 | do not want to do | 208 | 10.4 |
| 3 | do not want to do much | 95 | 4.8 |
| 4 | can not say I want or do not want | 145 | 7.3 |
| 5 | want to do a little | 677 | 33.9 |
| 6 | want to do | 438 | 21.9 |
| 7 | want to do very much | 272 | 13.6 |

## A2_6) How much do you want to try the activities? /take Photo of Moon or Stars

| all |  | 2000 | 100.0 |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 236 | 11.8 |
| 2 | do not want to do | 144 | 7.2 |
| 3 | do not want to do much | 219 | 11.0 |
| 4 | can not say I want or do not want | 773 | 38.7 |
| 5 | want to do a little | 313 | 15.7 |
| 6 | want to do | 214 | 10.7 |
| 7 | want to do very much | 101 | 5.1 |

A3_1) Please select the actions that you have done. (MA)

|  | N |  | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | read Research Paper of Astronomy | 2000 | 100.0 |
| 2 | read Astronomy Textbook | 38 | 1.9 |
| 3 | read Astronomy Book | 72 | 3.6 |
| 4 | watch Astronomy TV Show | 222 | 11.1 |
| 5 | attend Star Gazing Event | 319 | 16.0 |
| 6 | attend Astronomy Open Lecture | 99 | 5.0 |
| 7 | attend Science Cafe | 40 | 2.0 |
| 8 | join Astronomy Club | 39 | 2.0 |
| 9 | join Astronomy SNS | 38 | 1.9 |
| 10 | donate to Astronomy Research | 40 | 2.0 |
| 11 | I haven't done any of them | 14 | 0.7 |

## A3_2) How much do you want to try the activities? /read Research Paper of Astronomy

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| (all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 549 | 27.5 |
| 2 | do not want to do | 333 | 16.7 |
| 3 | do not want to do much | 374 | 18.7 |
| 4 | can not say I want or do not want | 568 | 28.4 |
| 5 | want to do a little | 108 | 5.4 |
| 6 | want to do | 44 | 2.2 |
| 7 | want to do very much | 24 | 1.2 |

## A3_2) How much do you want to try the activities? /read Astronomy Textbook

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 536 | 26.8 |
| 2 | do not want to do | 311 | 15.6 |
| 3 | do not want to do much | 361 | 18.1 |
| 4 | can not say I want or do not want | 571 | 28.6 |
| 5 | want to do a little | 142 | 7.1 |
| 6 | want to do | 56 | 2.8 |
| 7 | want to do very much | 23 | 1.2 |

A3_2) How much do you want to try the activities? /read Astronomy Book

|  | N |  | $\%$ |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 2000 | 100.0 |
| 2 | do not want to do | 498 | 24.9 |
| 3 | do not want to do much | 255 | 12.8 |
| 4 | can not say I want or do not want | 283 | 14.2 |
| 5 | want to do a little | 585 | 29.3 |
| 6 | want to do | 238 | 11.9 |
| 7 | want to do very much | 99 | 5.0 |

A3_2) How much do you want to try the activities? /watch Astronomy TV Show

|  | $N$ | $\%$ |  |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 2000 | 100.0 |
| 2 | do not want to do | 440 | 22.0 |
| 3 | do not want to do much | 211 | 10.6 |
| 4 | can not say I want or do not want | 234 | 11.7 |
| 5 | want to do a little | 615 | 30.8 |
| 6 | want to do | 293 | 14.7 |
| 7 | want to do very much | 145 | 7.3 |

## A3_2) How much do you want to try the activities? /attend Star Gazing Event

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| (all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 481 | 24.1 |
| 2 | do not want to do | 224 | 11.2 |
| 3 | do not want to do much | 292 | 14.6 |
| 4 | can not say I want or do not want | 637 | 31.9 |
| 5 | want to do a little | 221 | 11.1 |
| 6 | want to do | 103 | 5.2 |
| 7 | want to do very much | 42 | 2.1 |

## A3_2) How much do you want to try the activities? /attend Astronomy Open Lecture

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 521 | 26.1 |
| 2 | do not want to do | 282 | 14.1 |
| 3 | do not want to do much | 330 | 16.5 |
| 4 | can not say I want or do not want | 641 | 32.1 |
| 5 | want to do a little | 146 | 7.3 |
| 6 | want to do | 56 | 2.8 |
| 7 | want to do very much | 24 | 1.2 |

## A3_2) How much do you want to try the activities? /attend Science Café

| all |  | 2000 | 100.0 |
| ---: | :--- | ---: | ---: |
| 1 | do not want to do at all | 551 | 27.6 |
| 2 | do not want to do | 281 | 14.1 |
| 3 | do not want to do much | 373 | 18.7 |
| 4 | can not say I want or do not want | 615 | 30.8 |
| 5 | want to do a little | 126 | 6.3 |
| 6 | want to do | 37 | 1.9 |
| 7 | want to do very much | 17 | 0.9 |

A3_2) How much do you want to try the activities? /join Astronomy Club

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 585 | 29.3 |
| 2 | do not want to do | 309 | 15.5 |
| 3 | do not want to do much | 371 | 18.6 |
| 4 | can not say I want or do not want | 596 | 29.8 |
| 5 | want to do a little | 78 | 3.9 |
| 6 | want to do | 44 | 2.2 |
| 7 | want to do very much | 17 | 0.9 |

## A3_2) How much do you want to try the activities? /join Astronomy SNS

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 582 | 29.1 |
| 2 | do not want to do | 319 | 16.0 |
| 3 | do not want to do much | 353 | 17.7 |
| 4 | can not say I want or do not want | 589 | 29.5 |
| 5 | want to do a little | 99 | 5.0 |
| 6 | want to do | 39 | 2.0 |
| 7 | want to do very much | 19 | 1.0 |

## A3_2) How much do you want to try the activities? /donate to Astronomy Research

|  |  | N | $\%$ |
| ---: | :--- | ---: | ---: |
| all |  | 2000 | 100.0 |
| 1 | do not want to do at all | 588 | 29.4 |
| 2 | do not want to do | 287 | 14.4 |
| 3 | do not want to do much | 340 | 17.0 |
| 4 | can not say I want or do not want | 646 | 32.3 |
| 5 | want to do a little | 98 | 4.9 |
| 6 | want to do | 27 | 1.4 |
| 7 | want to do very much | 14 | 0.7 |

