### Appendix 2. Examples and instructions for three learning measures

| Measure             | Instruction to participants                                                                 | Example provided | Knowledge assessed                              | Format            |
|---------------------|---------------------------------------------------------------------------------------------|------------------|------------------------------------------------|-------------------|
| Character writing   | Please write down the character in the blank that matches the English definition.           | star (         ) | Visual-orthographic form representation (productive) | Paper-and-pencil  |
| Recognition:        | There are two sessions in the task. One is reading the English meaning of a word and choosing its correct Chinese character (English-to-Chinese), and the other is reading a Chinese character and choosing its correct English meaning (Chinese-to-English). |                  | Visual-orthographic form representation (receptive) |                   |
| Chinese-to-English  | Please choose the English definition that best matches the character. Each question had four options, and only one was the correct answer.  | 波 (          ) Ⓐwave Ⓑslope Ⓒsea Ⓓbrain | Form-meaning link, by assessing learners’ ability to identify a given character’s meaning from three distractors | Computerized      |
| Recognition:        | Please choose the Chinese character that best matches the English definition. Each question had four options, and only one was the correct answer.  | power (      ) Ⓐ力 Ⓑ刀 Ⓒ刃 Ⓓ忍 | Form-meaning link, by assessing learners’ ability to differentiate one character from its visually similar counterpart based on a given meaning | Computerized      |