Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| A. taking apart an object to learn how it works or to make it better |
| B. the crease down the center of a book |
| C. figuring out the best possible design |
| D. deciding to give up one feature of a design to gain another |
| E. a model built to test a product or concept |
| F. pop ups attached at page positions that are equal distances from the gutter |
| G. the two places on either side of the gutter where the pop up is attached to the book |
| H. the series of steps taken to build a product or achieve a goal  |
| I. pop ups attached at page positions in line with the gutter |
| J. testing different solutions to solve a design problem |
| K. pop ups attached at page positions not in line with the gutter |
| L. pop ups attached at page positions that are different distances from the gutter |

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| 1. | \_\_\_ page positions |
| 2. | \_\_\_ trade-off |
| 3. | \_\_\_ prototype |
| 4. | \_\_\_ reverse engineering |
| 5. | \_\_\_ troubleshooting |
| 6. | \_\_\_ parallel-fold pop ups |
| 7. | \_\_\_ angle-fold pop ups |
| 8. | \_\_\_ asymmetric pop ups |
| 9. | \_\_\_ symmetric pop ups |
| 10. | \_\_\_ gutter |
| 11. | \_\_\_ optimize |
| 12. | \_\_\_ engineering design process |

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| 1. | G\_\_ page positions |
| 2. | D\_\_ trade-off |
| 3. | E\_\_ prototype |
| 4. | A\_\_ reverse engineering |
| 5. | J\_ troubleshooting |
| 6. | I\_\_ parallel-fold pop ups |
| 7. | K\_\_ angle-fold pop ups |
| 8. | L\_\_ asymmetrical pop ups |
| 9. | F\_\_ symmetrical pop ups |
| 10. | B\_\_ gutter |
| 11. | C\_\_ optimize |
| 12. | H\_\_ engineering design process |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What do you know about pop ups? How do you build them? How do they work?

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