| Code | Description |
|------|--|
| 1 | Knowing |
| | Representing |
| | Recognizing equivalents |
| | Recalling mathematical objects and properties |
| | Using vocabulary and notation |
| 2 | Using Routine Procedures & Tools to Solve Problems |
| | Using equipment |
| | • Using instruments, for example, measuring instruments |
| | Using computational devices |
| | Performing routine procedures |
| | • Counting |
| | • Computing |
| | Graphing |
| | Transforming |
| | Measuring |
| | Relating representations |
| | Describing and discussing |
| | Solving |
| | Predicting |
| 3 | Using More Complex Procedures & Conceptual Understandings to Solve |
| | Problems |
| | Using more complex procedures |
| | • Estimating |
| | Using data |
| | Comparing |
| | Classifying |
| 4 | Formulating Problems and Strategizing/Critiquing Solution Methods |
| | Formulating and clarifying problems and situations |
| | Developing strategy |
| | Verifying |
| | Developing notation and vocabulary |
| | Critiquing |
| 5 | Applying Advanced Reasoning Skills |
| | Developing algorithms |
| | Generalizing |
| | Conjecturing |
| | Justifying and proving |
| | Axiomatizing |

Mathematics: Categories for Analyzing Cognitive Demand