



There are no stupid questions, only ones we think are stupid: The accuracy of self-assessed question asking ability

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THE COGNITIVE
COMPLEXITY
LABORATORY

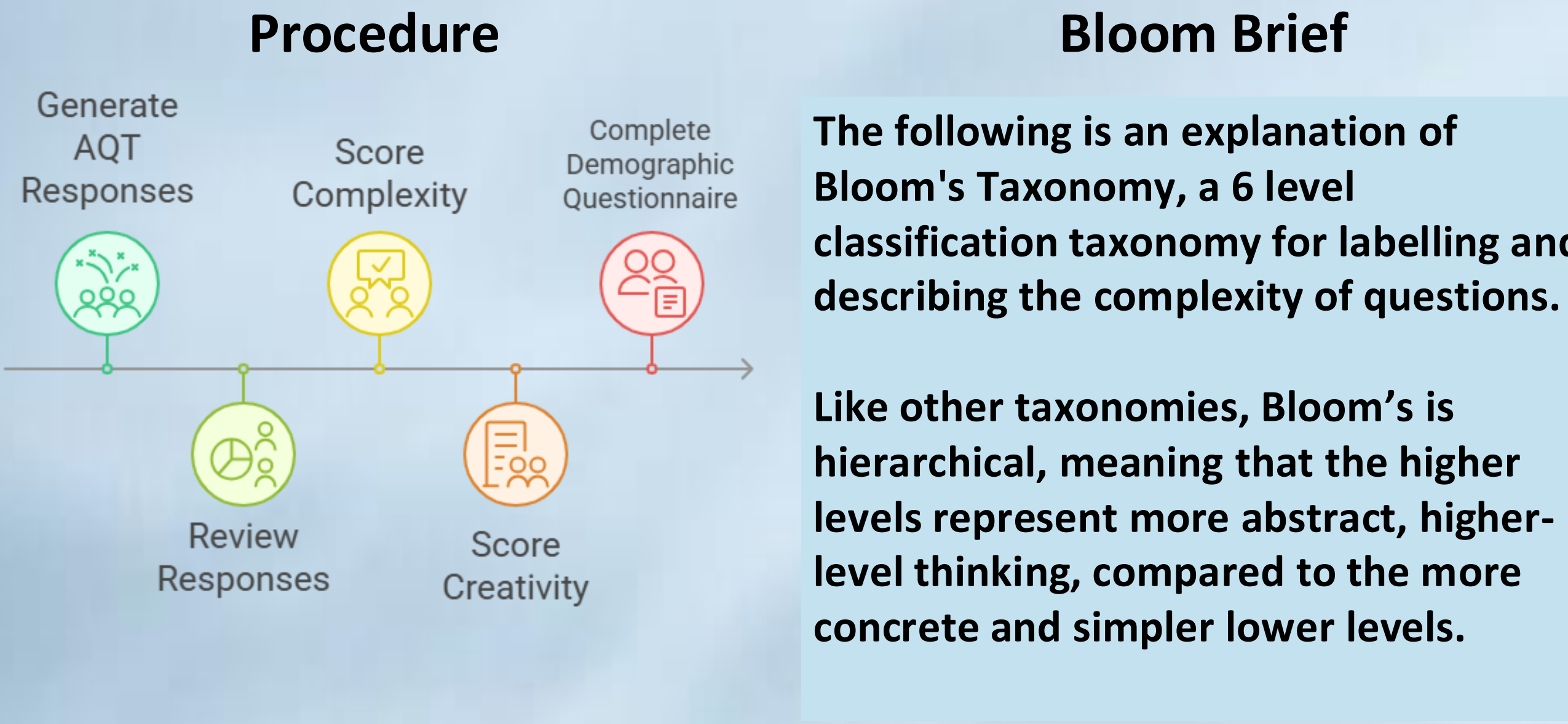
Introduction

Question-asking holds significant implications for fields such as learning, creativity, and cognitive development.

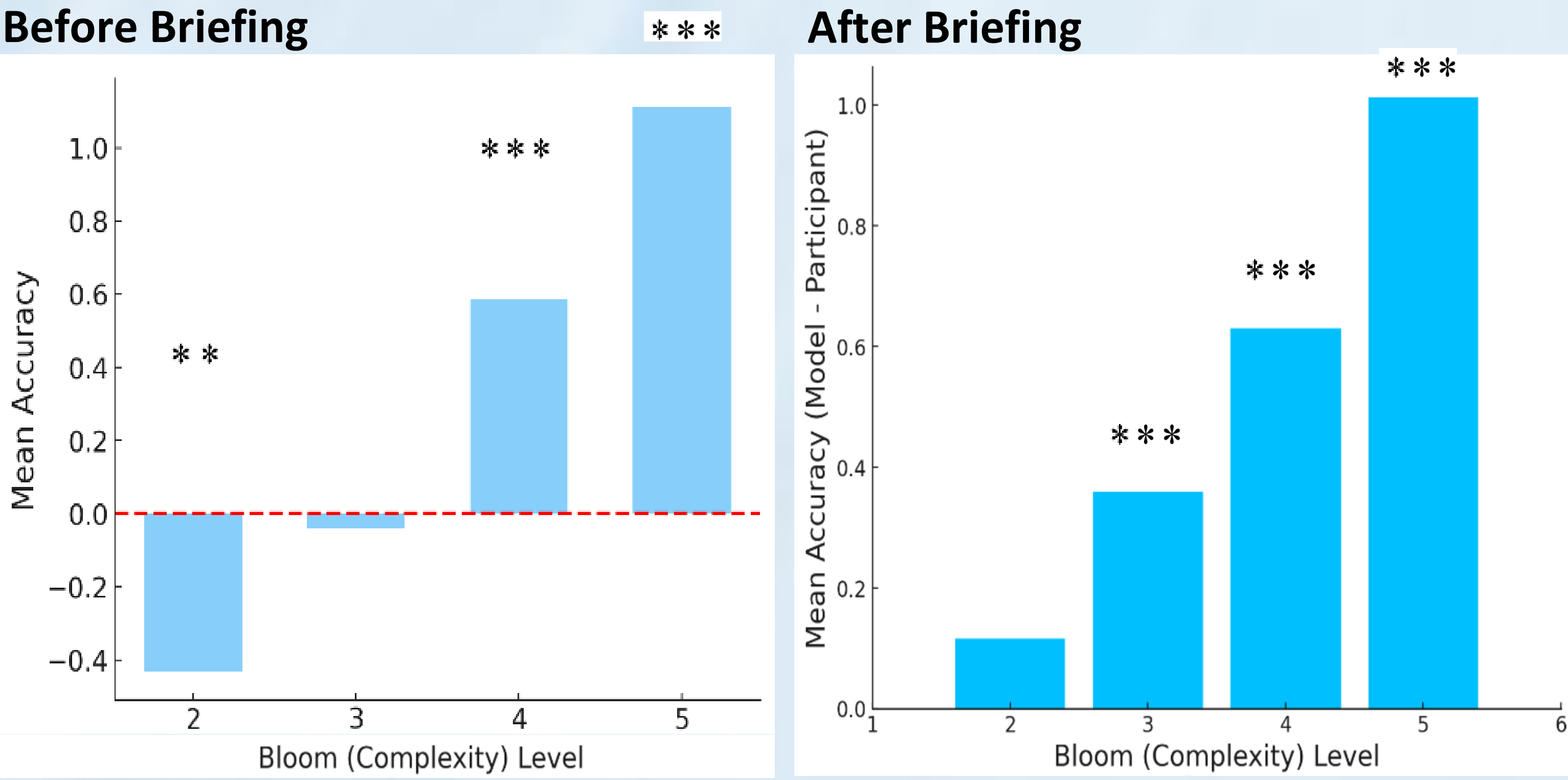
However, little is known about how accurately we assess question complexity. We address this gap by having participants self-rate their own question complexity and creativity.

Methods

Participants: Total dataset consisted of 300 participants recruited from Prolific Academic (Mage =33.7, SD =9.8) across 3 studies.



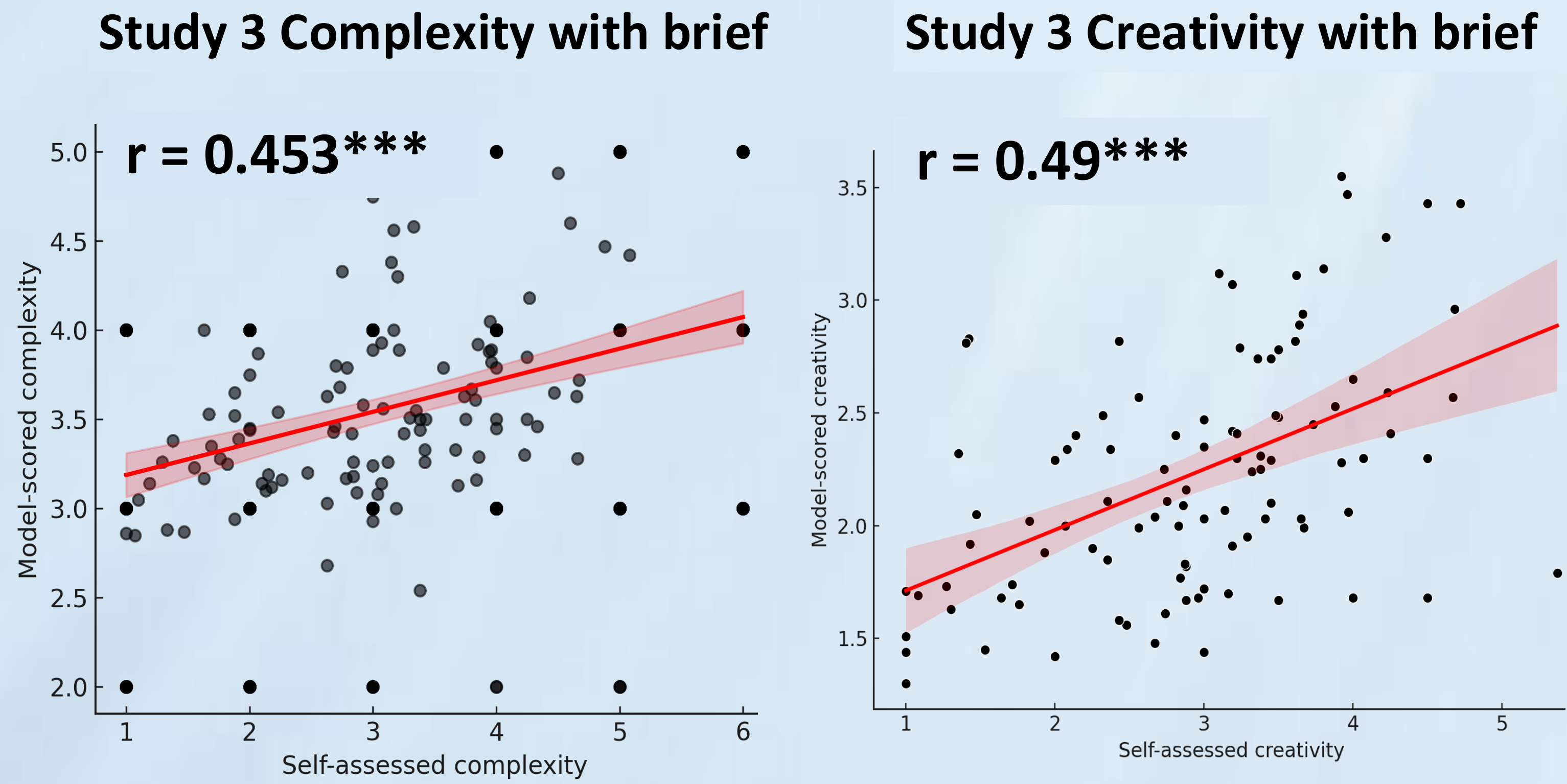
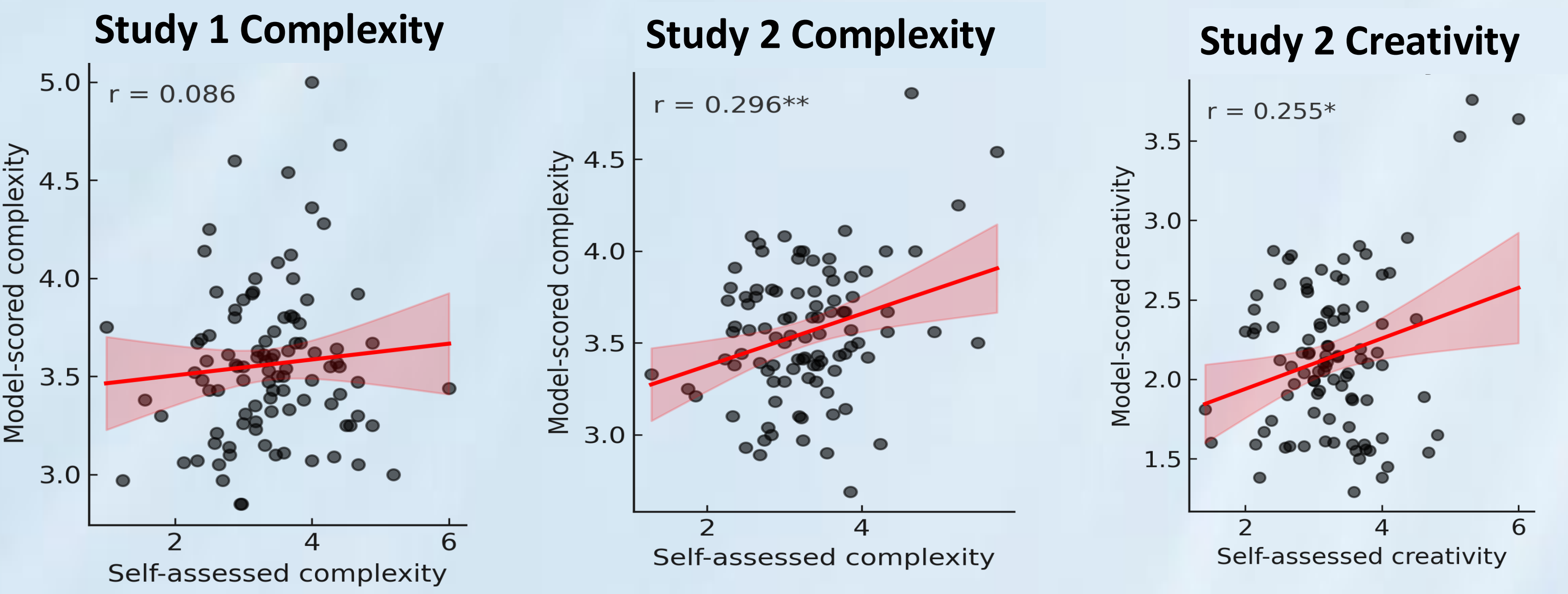
Accuracy Biases



Negative Score = Overestimation
Positive Score = Underestimation

Briefing reduces overestimation and induces underestimation

Self-Assessed Accuracy

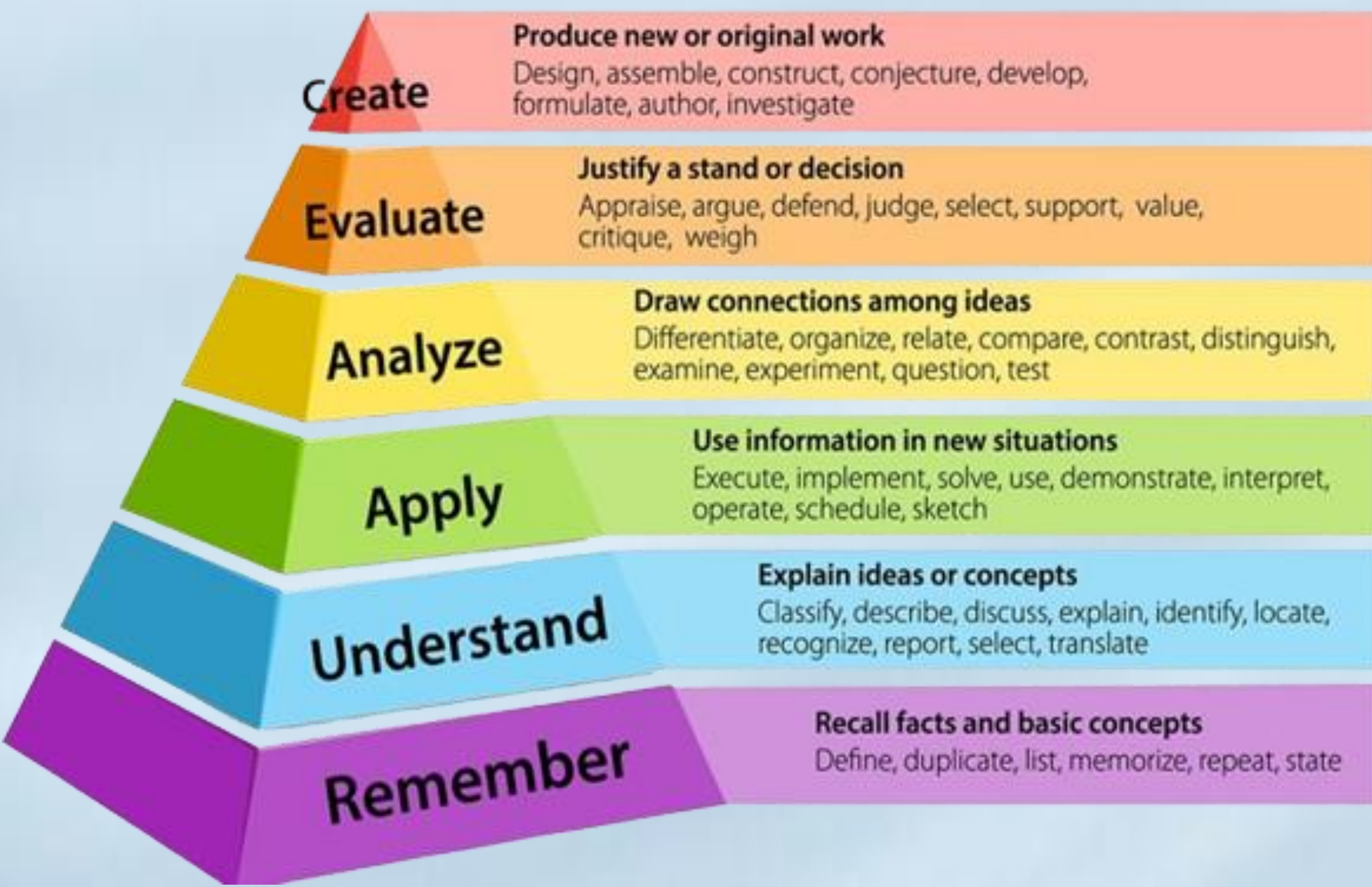


Alternative Questions Task (AQT)



What are all the creative questions you can ask about these objects?

Bloom Taxonomy



Higher Pyramid levels represent more complex, higher order thinking skills

Bloom level rating

Participant Question	Self Rate	Model Rate
What story would a pencil write if it could write its own?	5	5
what magical power would a pencil ideally have	3	5
does a pencil get depressed when it becomes pointless	3	4
How long would a line be if you continuously wrote it with the pencil until it ran out?	4	4
How many trees does it take to make a pencil	3	4
What shape is it?	1	2

Practical Uses



Question
Enhancement



Improving
Learning



Psychological
Studies

Conclusion

Overall, this study advances our understanding of the accuracy of self-assessed question-asking ability

Our work highlights the biases that hinder accurate self-perception and the potential of targeted and relevant information for its enhancement

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