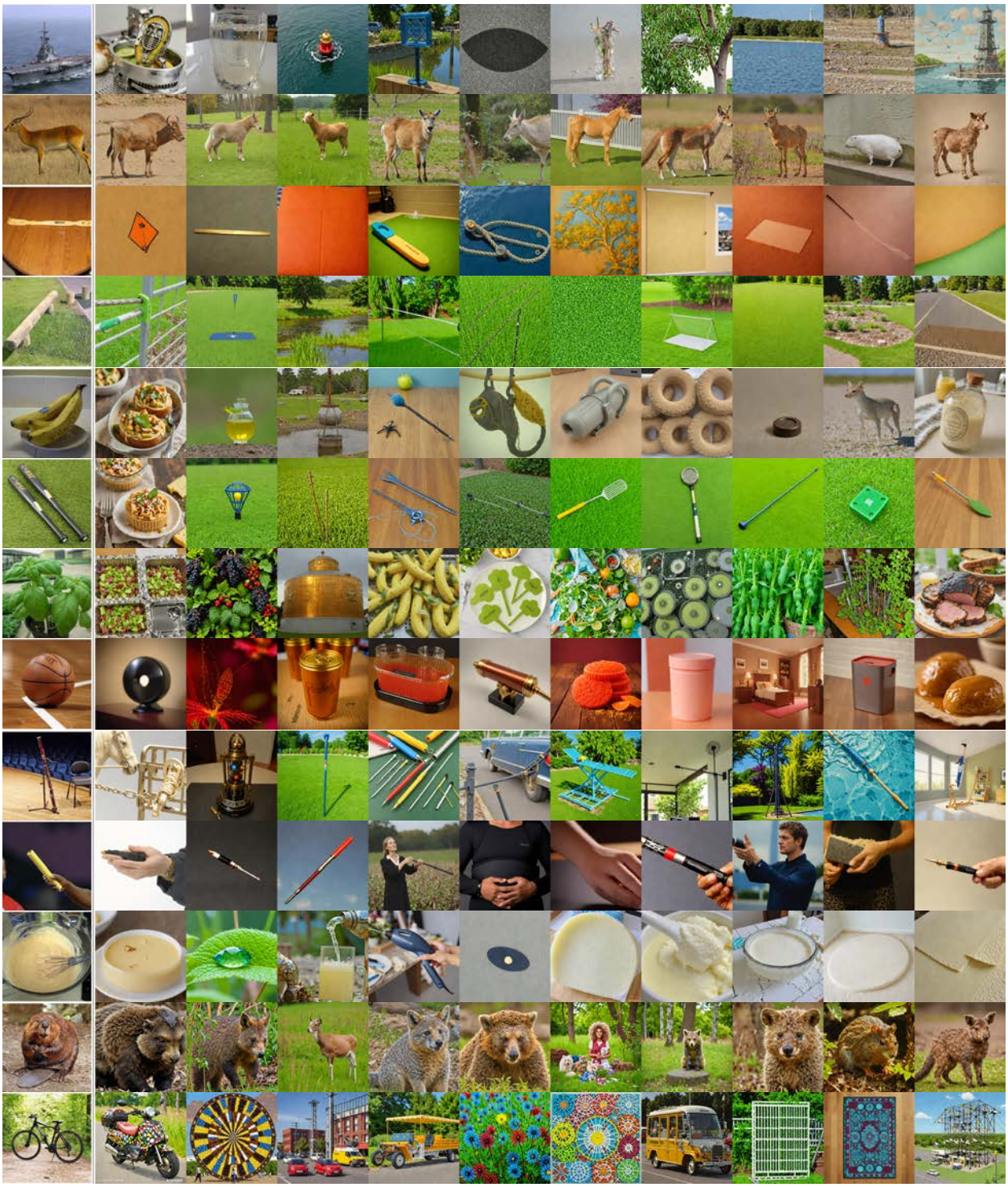
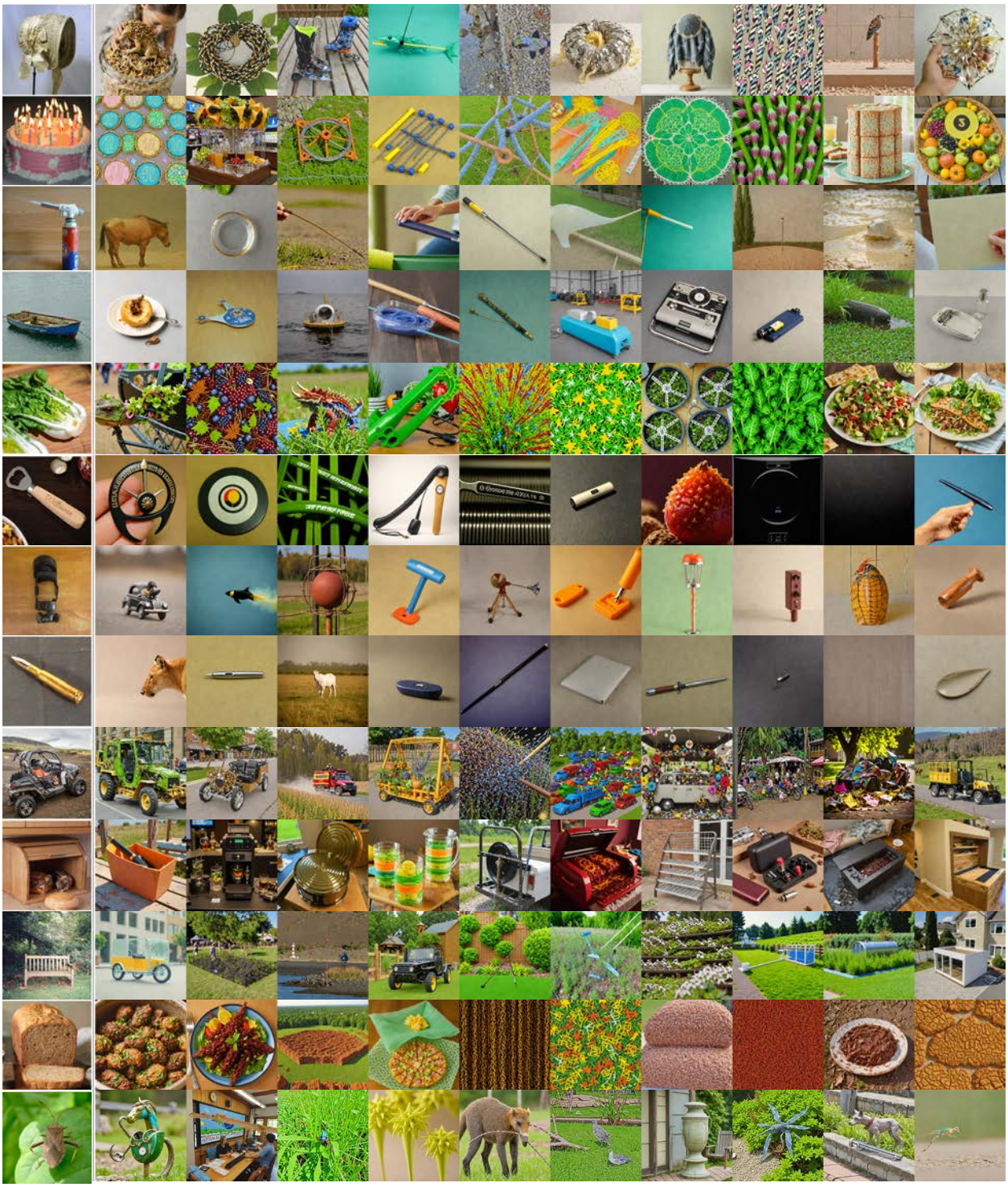
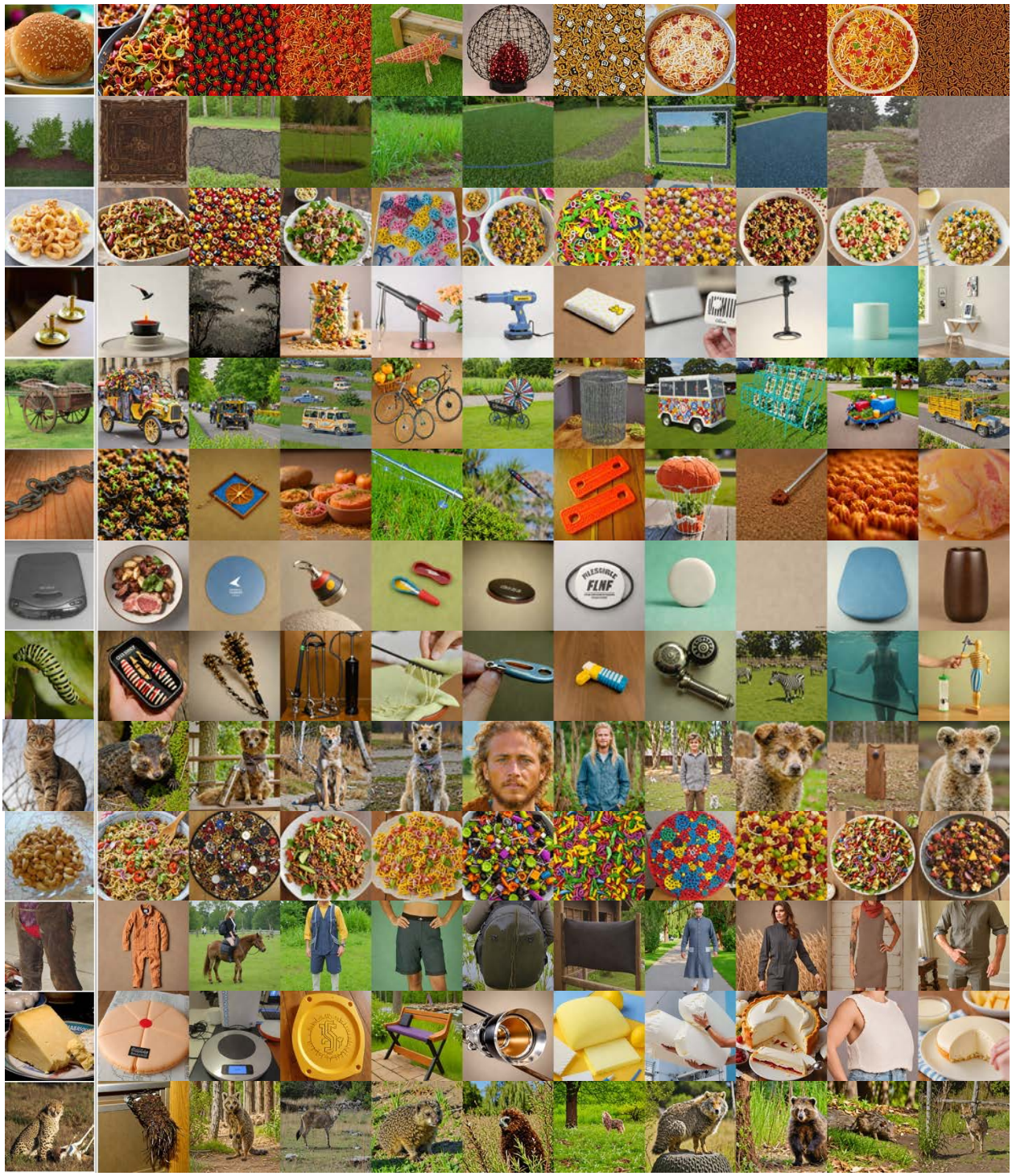


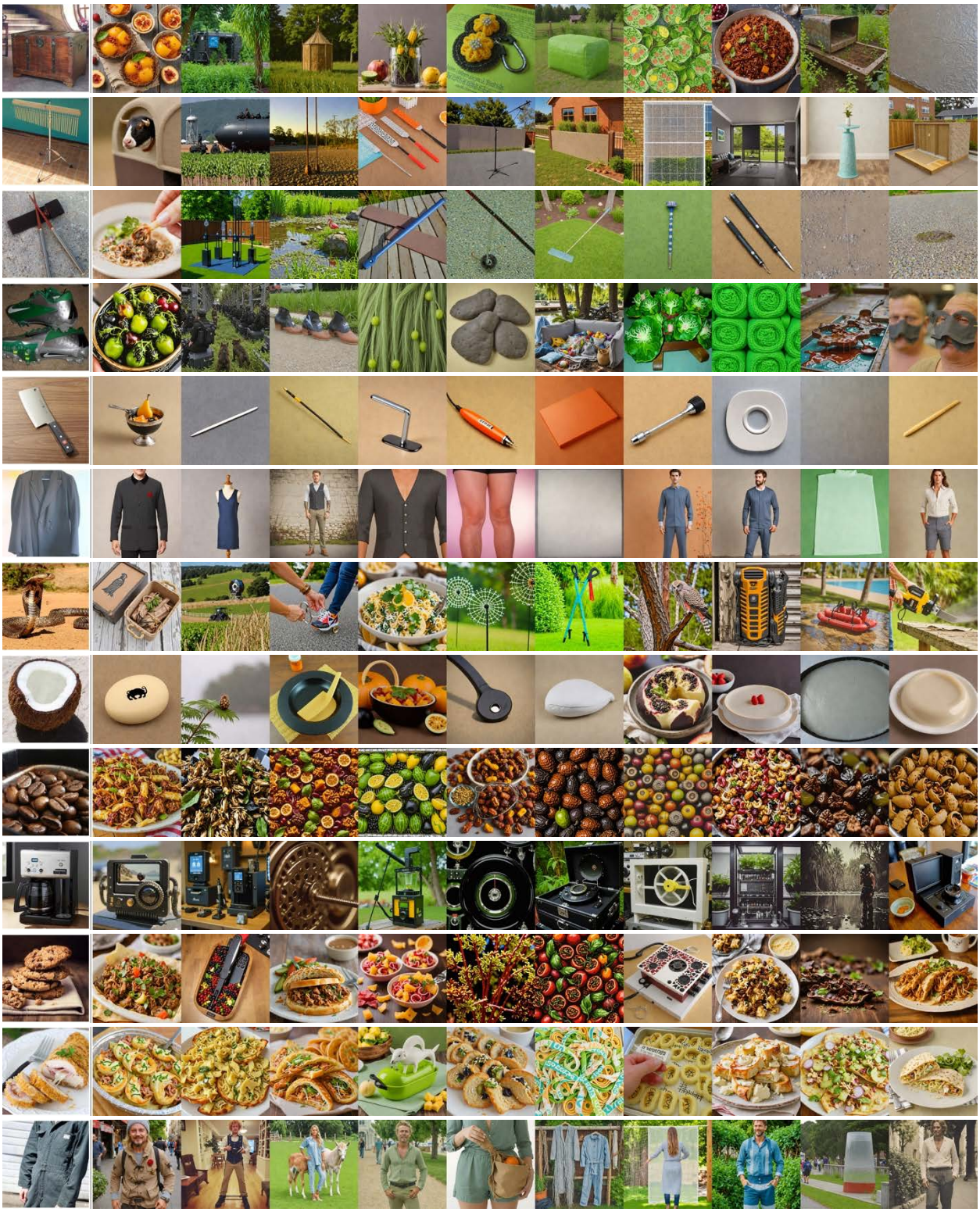
Supplement Figure 1. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



Supplement Figure 2. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.

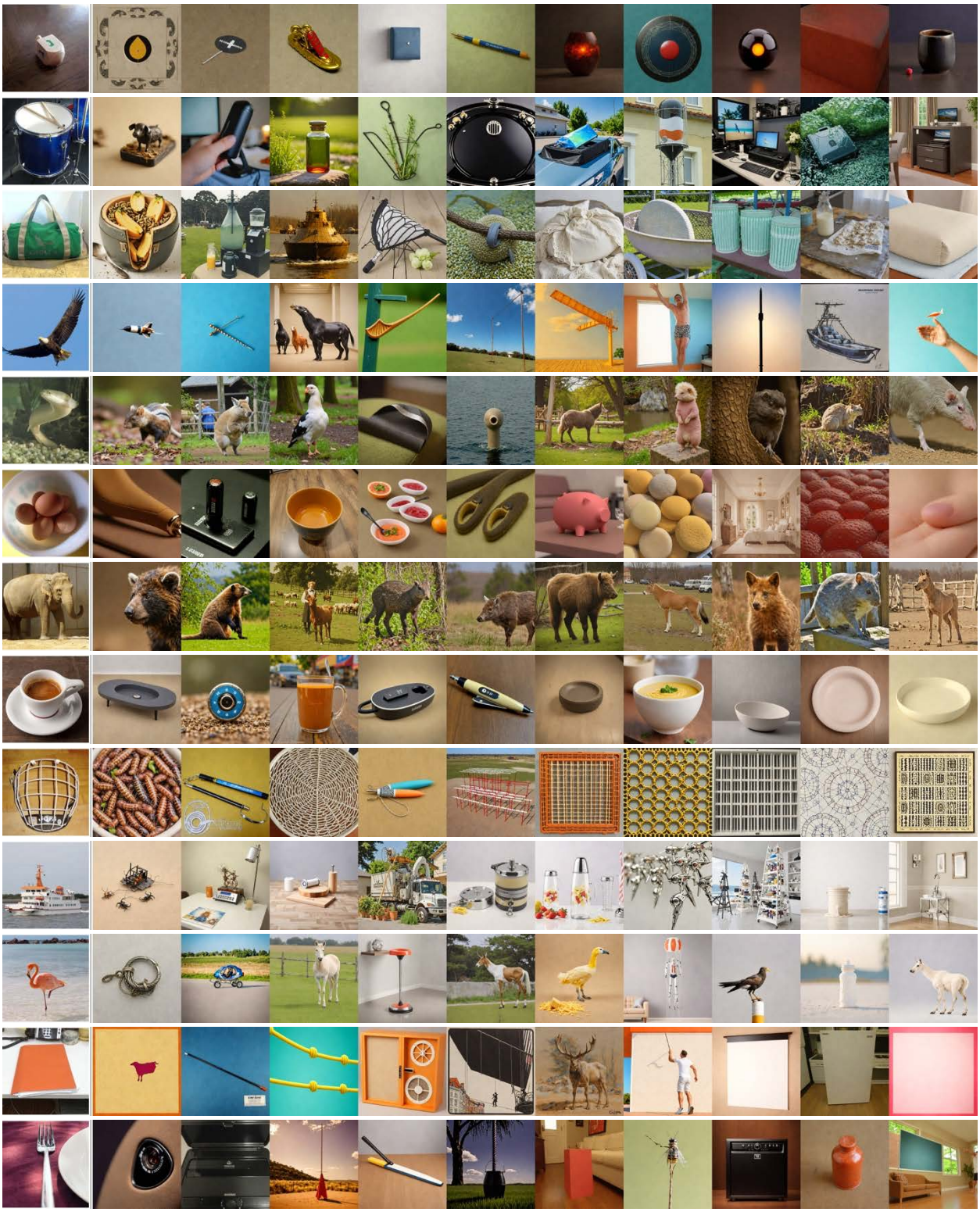


Supplement Figure 3. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.

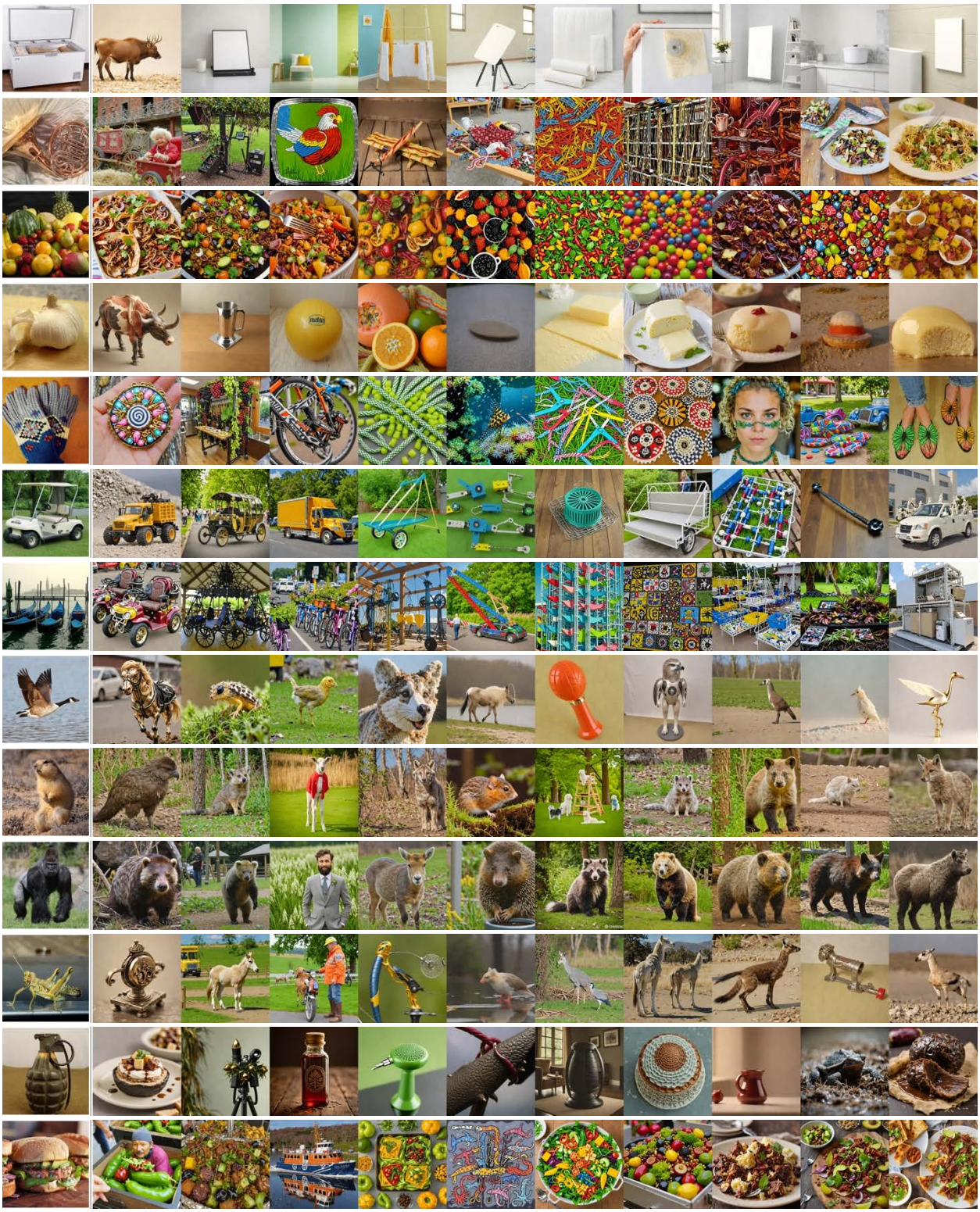


Supplement Figure 4. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.

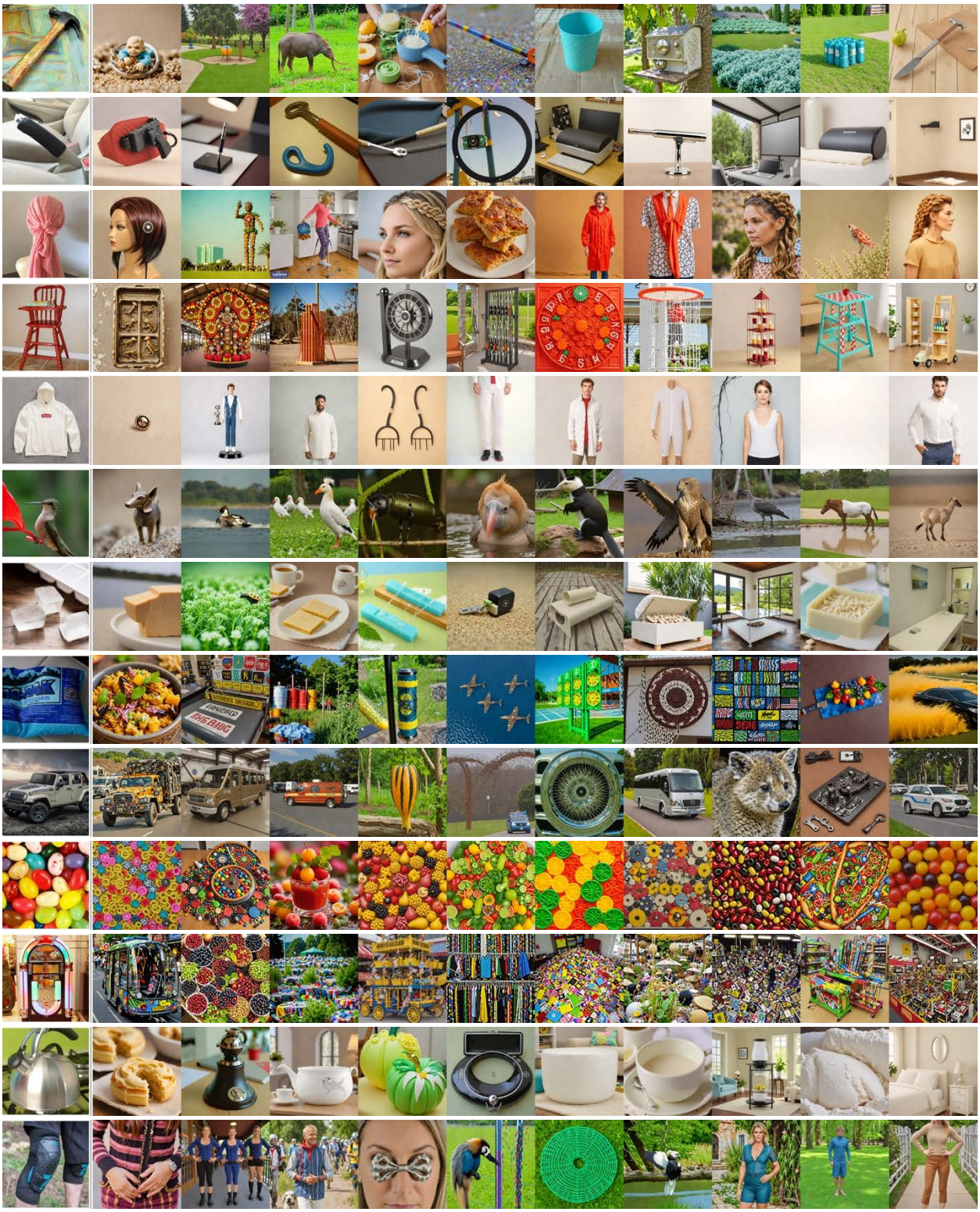
Supplement Figure 5. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



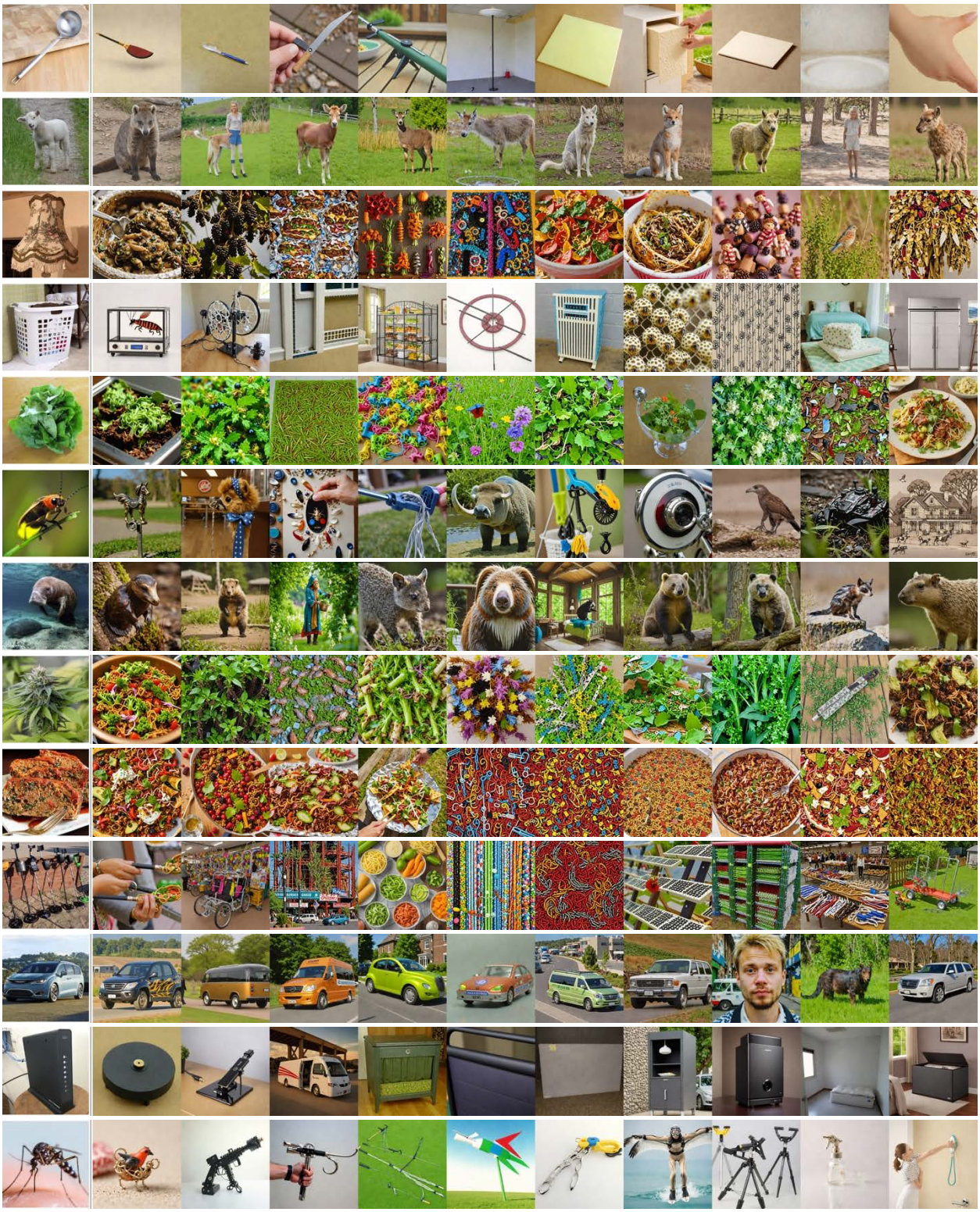
Supplement Figure 6. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



Supplement Figure 7. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.

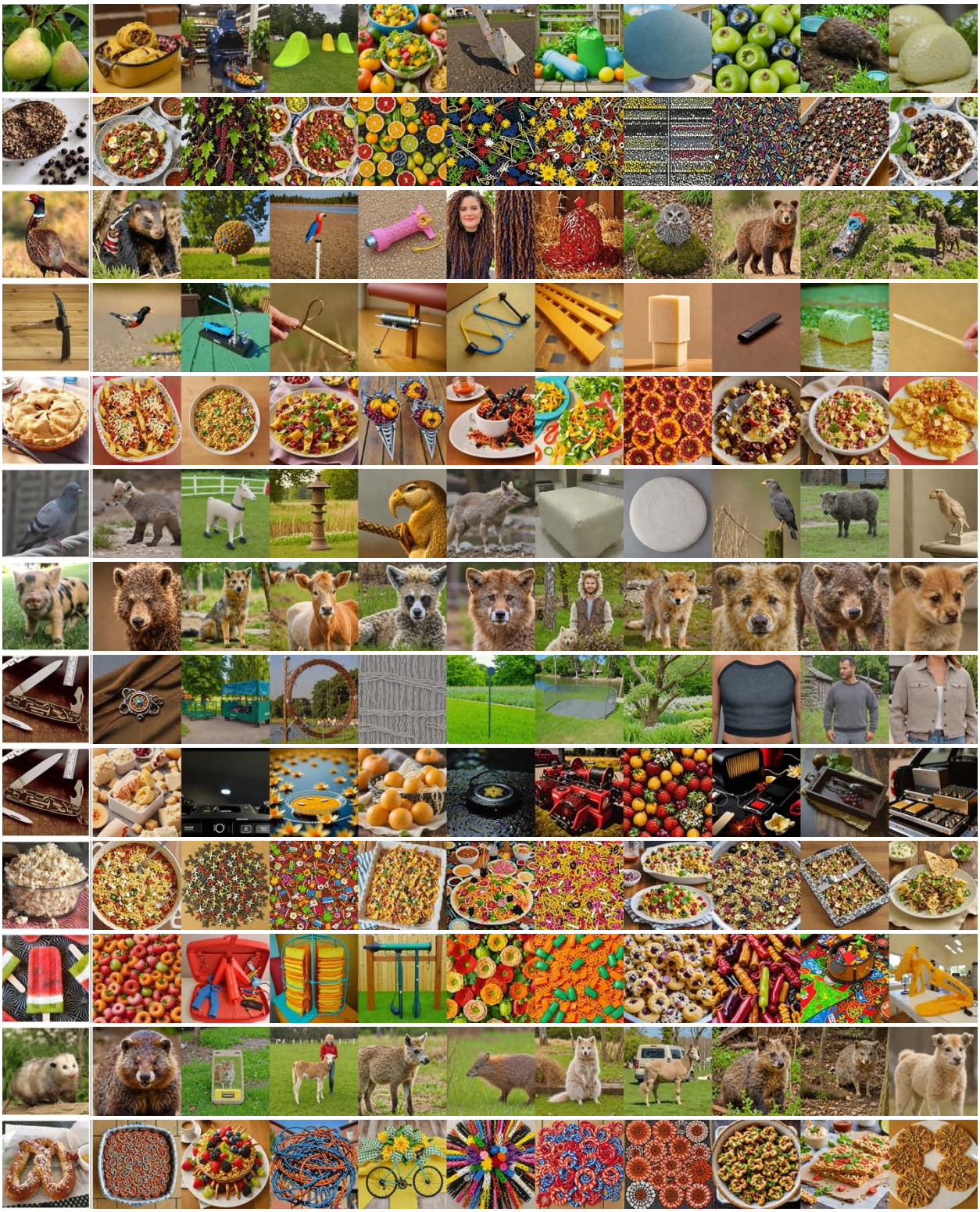


Supplement Figure 8. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.

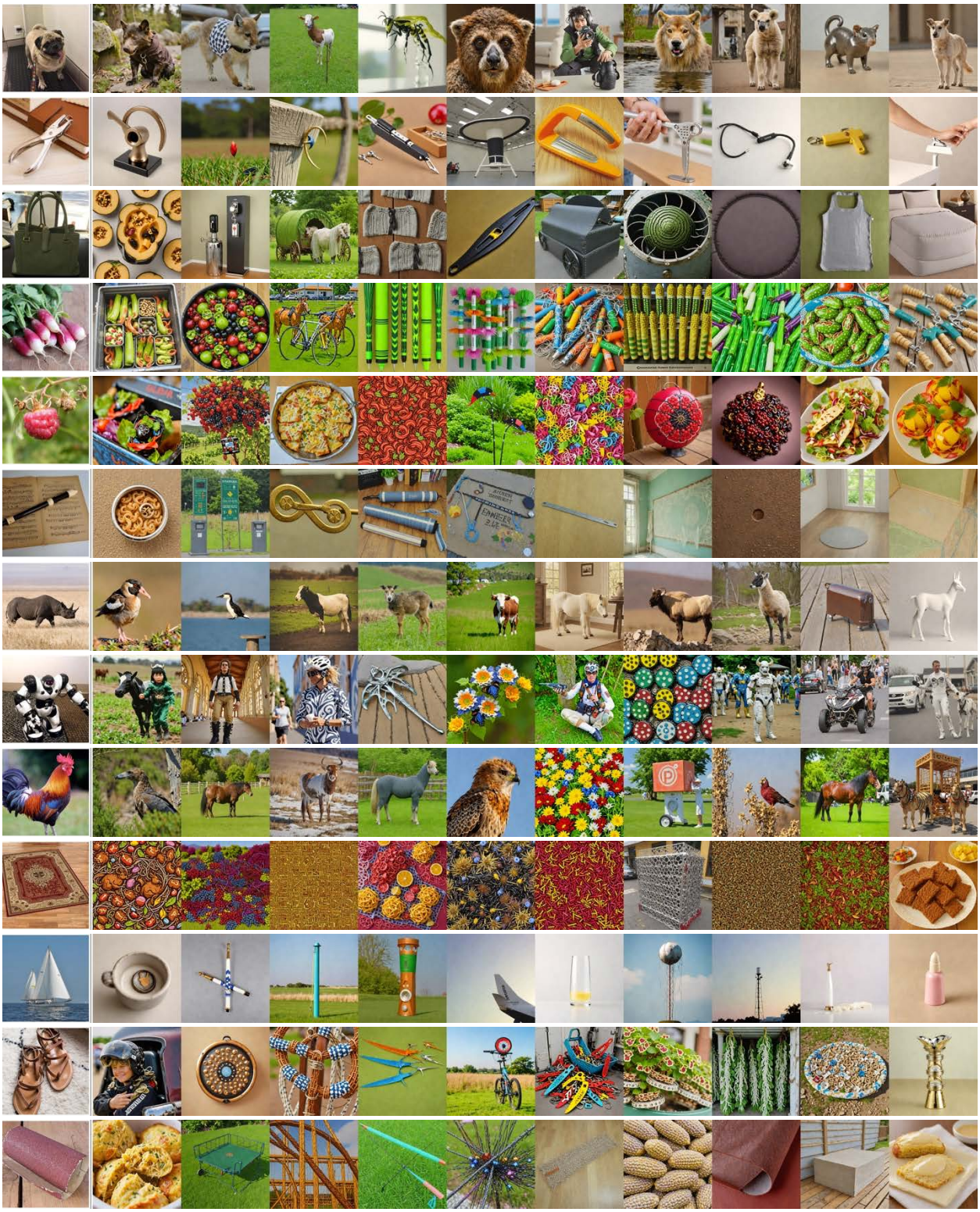


Supplement Figure 9. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.

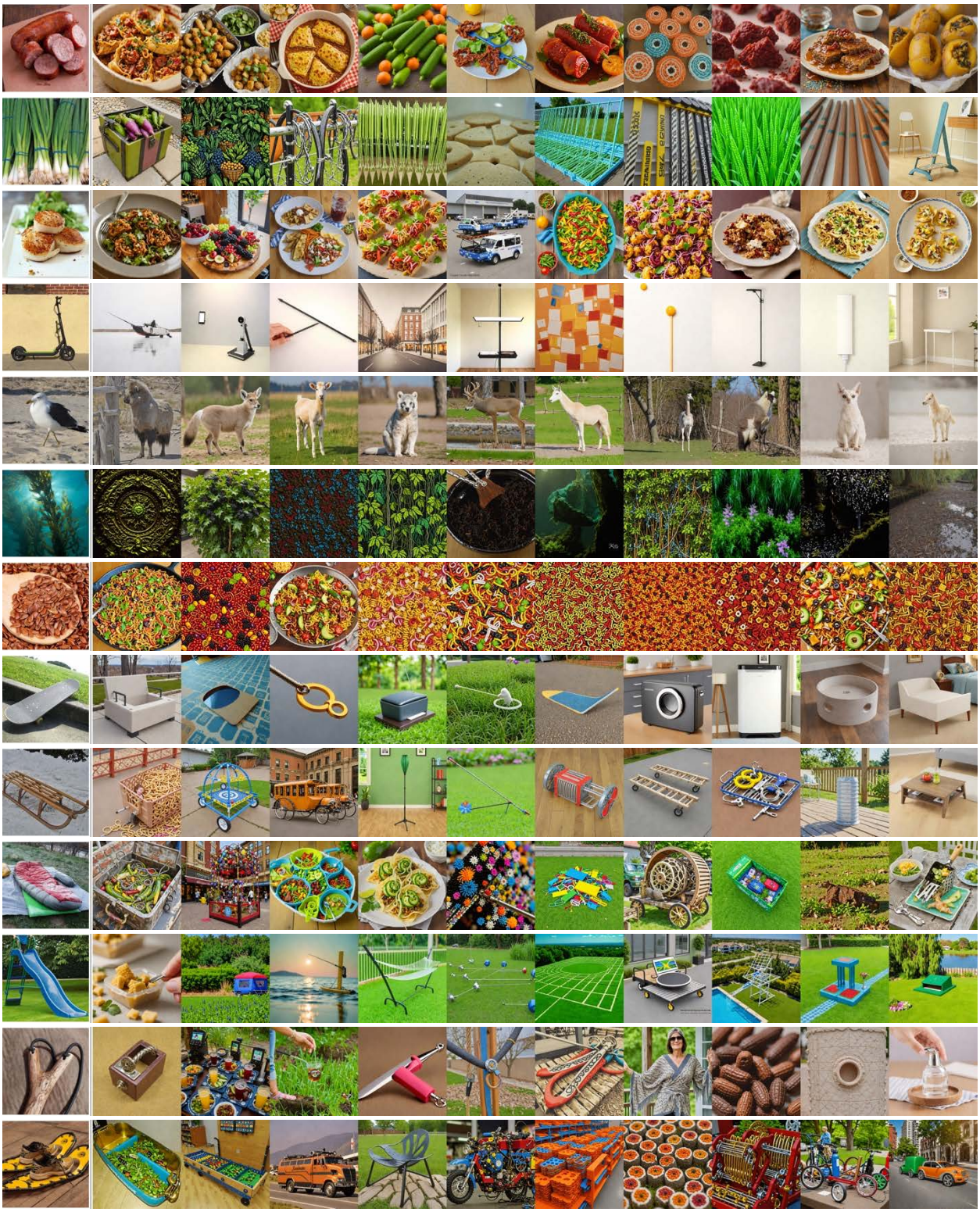
Supplement Figure 10. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



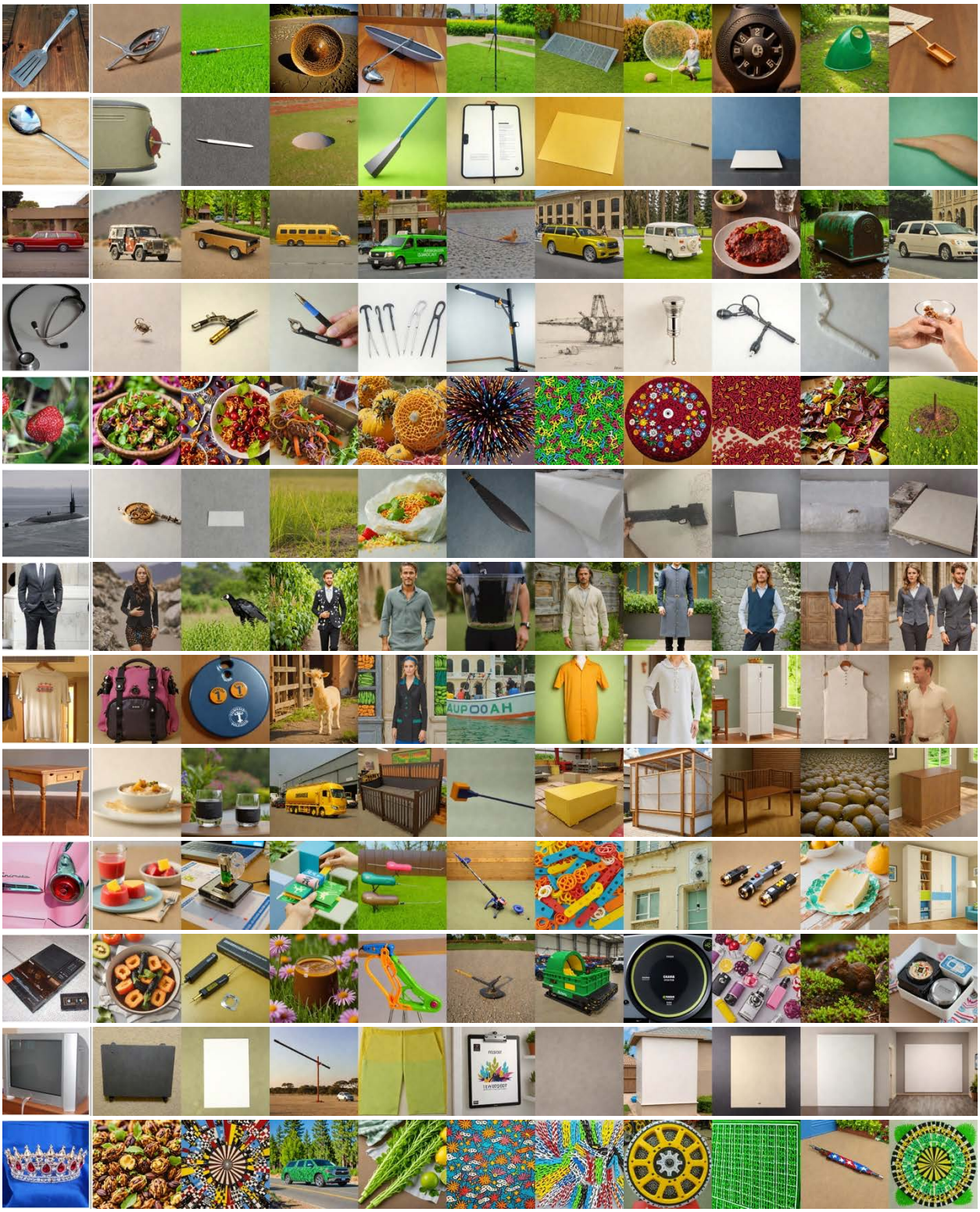
Supplement Figure 11. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



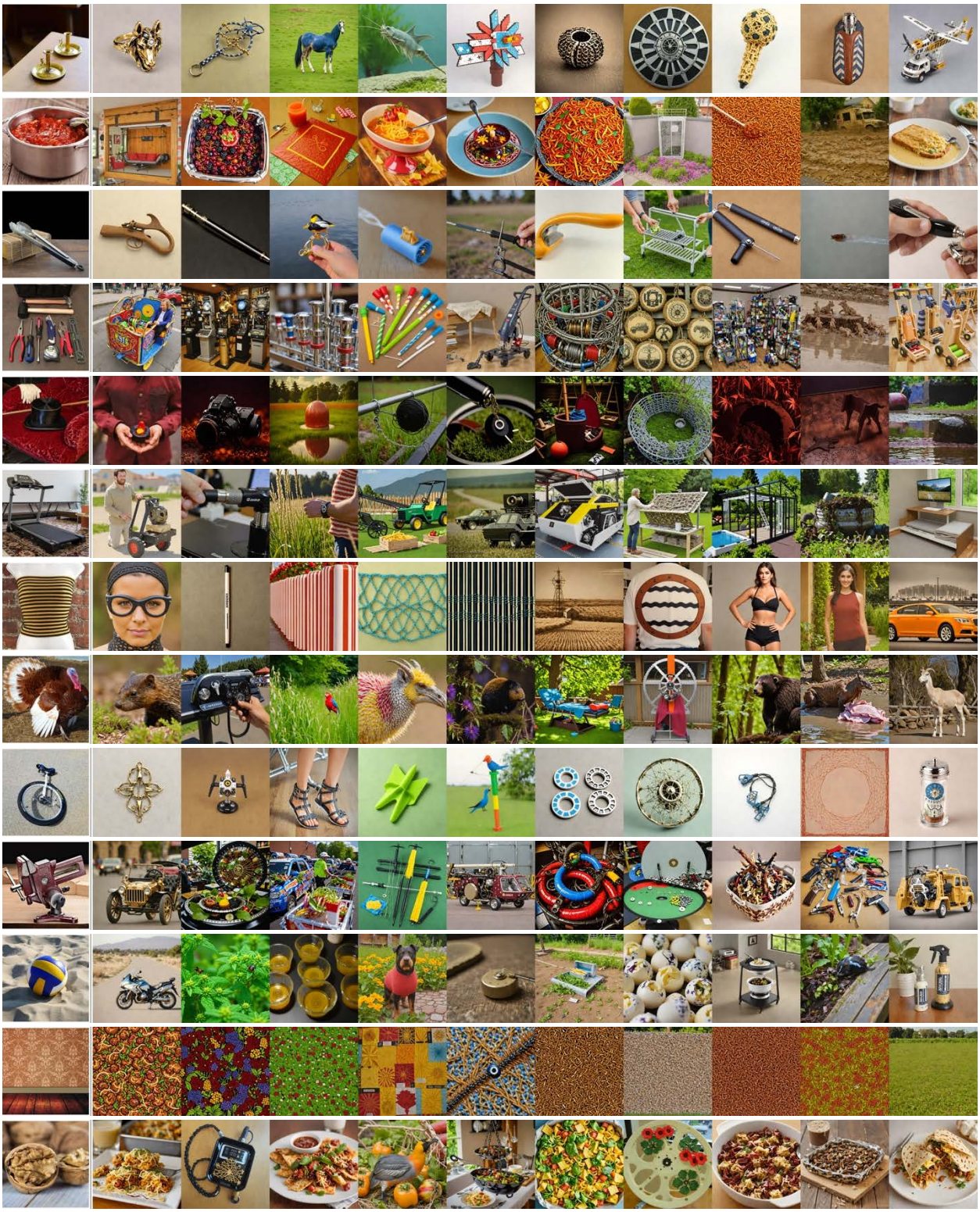
Supplement Figure 12. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



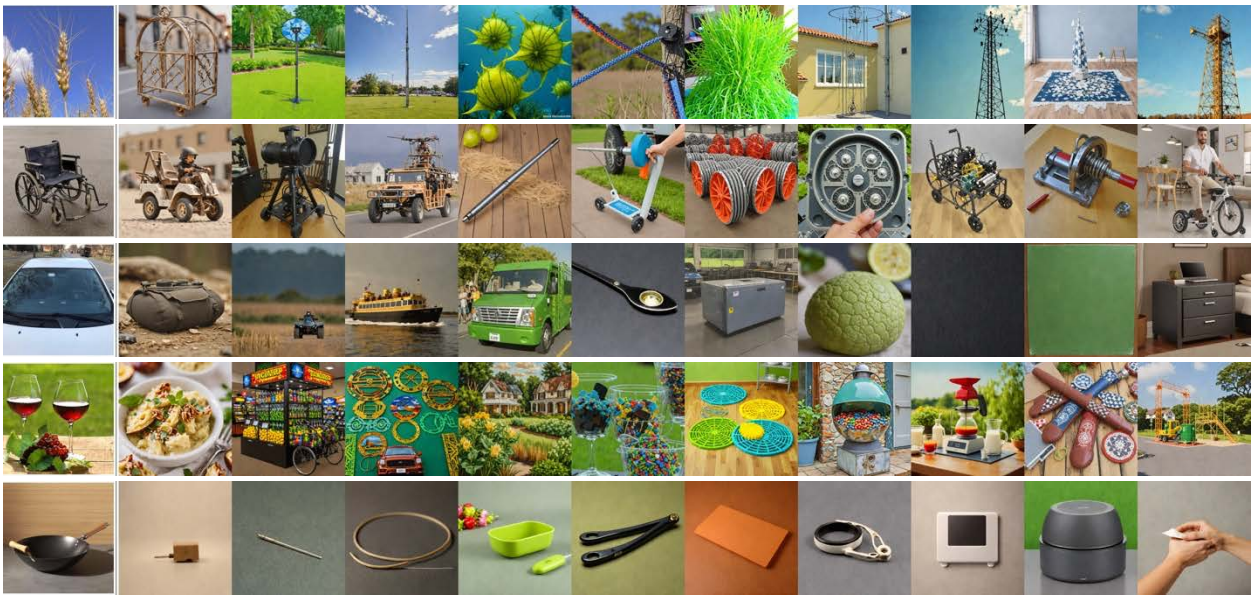
Supplement Figure 13. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



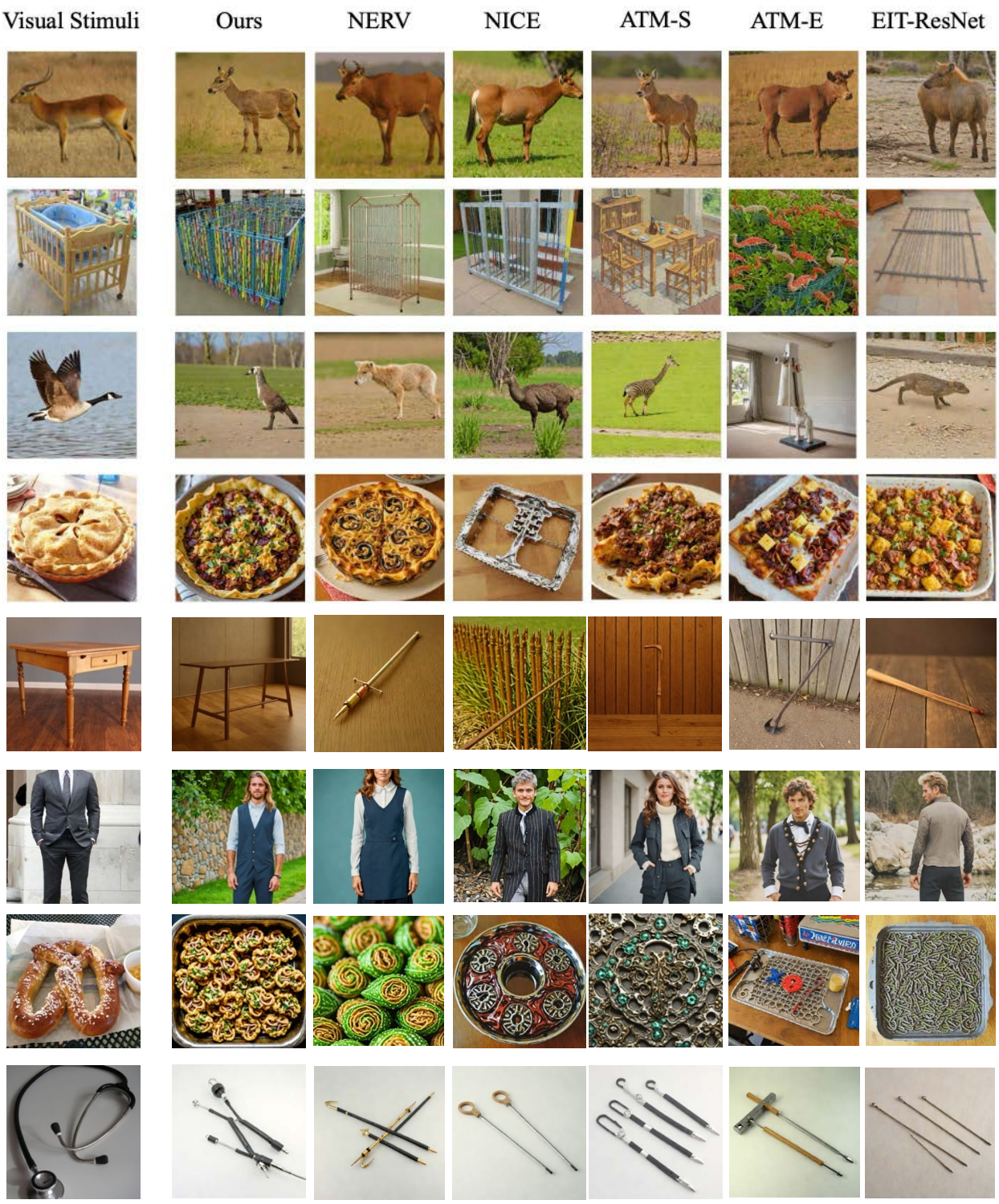
Supplement Figure 14. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



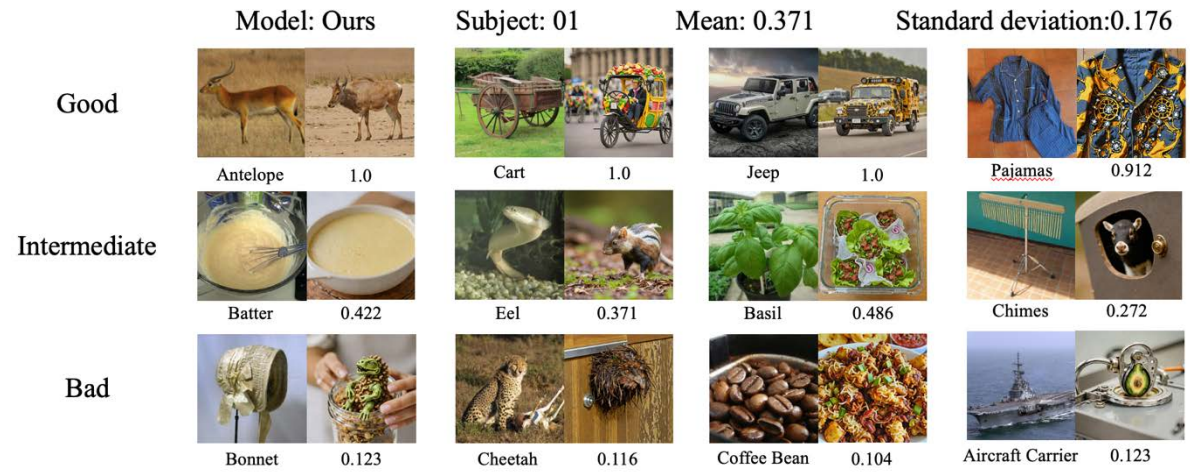
Supplement Figure 15. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



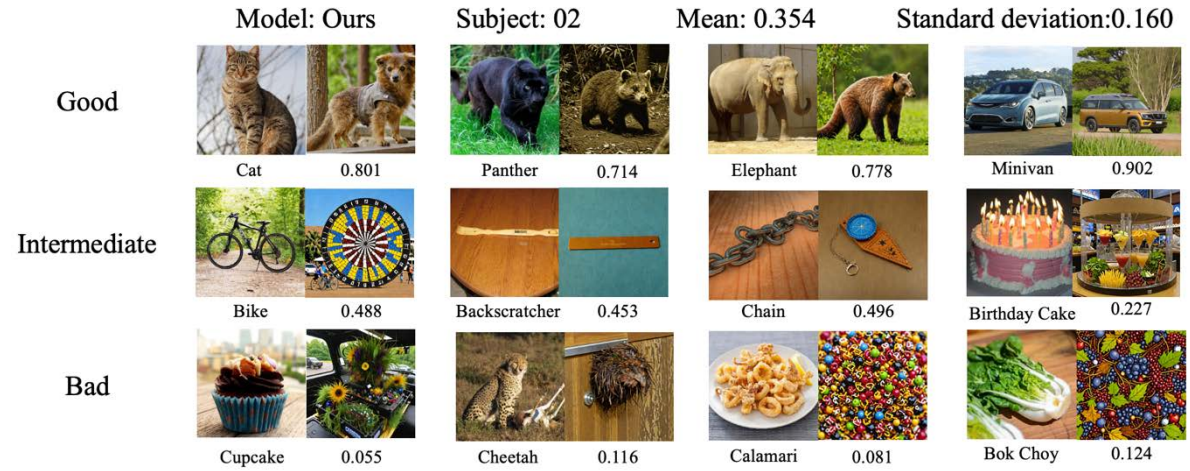
Supplement Figure 16. The representative generation results of our proposed model for each subject in every class. The left image represents the visual stimuli, and the right 10 images refer to the results of each subject respectively generated by the proposed method.



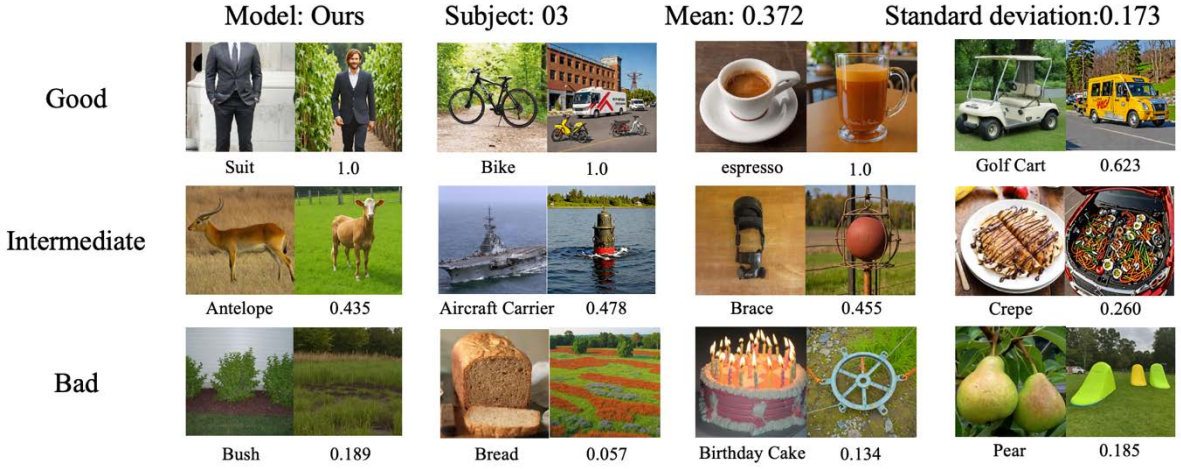
Supplement Figure 17. The representative results comparison between our models and other models. We found that compared with generated images by other models, our results can better reflect the semantic information of the class labels.



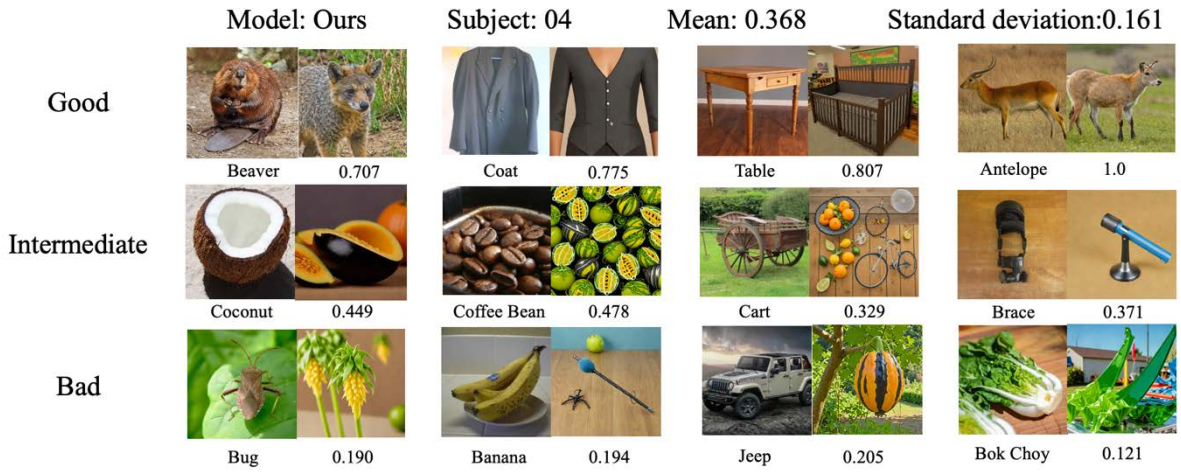
Supplement Figure 18. Different semantic scores of generated images in subject 01. For each group of two images, the left one refers to the visual stimuli, and the right one refers to the representative generated result. The number below the right image refers to the semantic score.



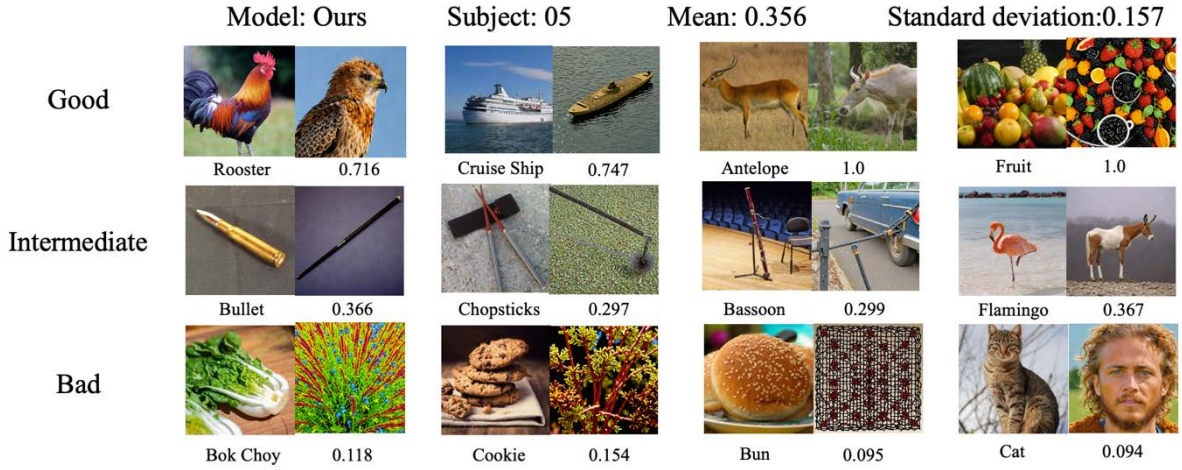
Supplement Figure 19. The different semantic scores of generated images in the subject 02.



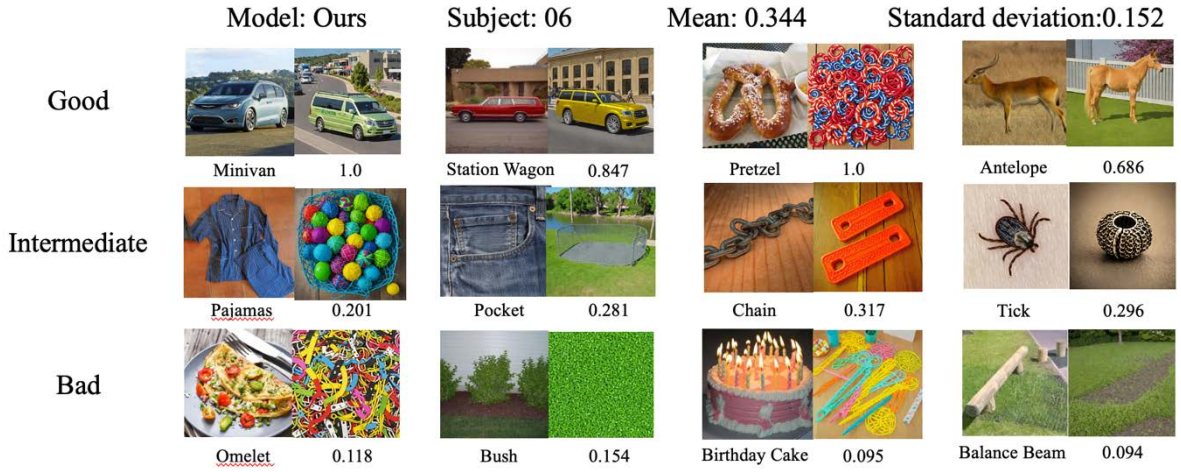
Supplement Figure 20. The different semantic scores of generated images in the subject 03.



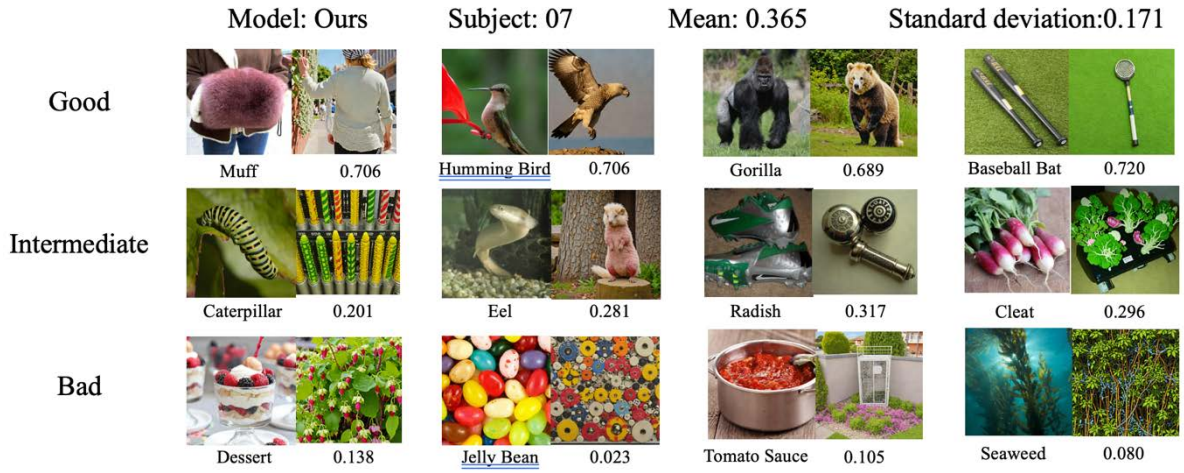
Supplement Figure 21. The different semantic scores of generated images in the subject 04.



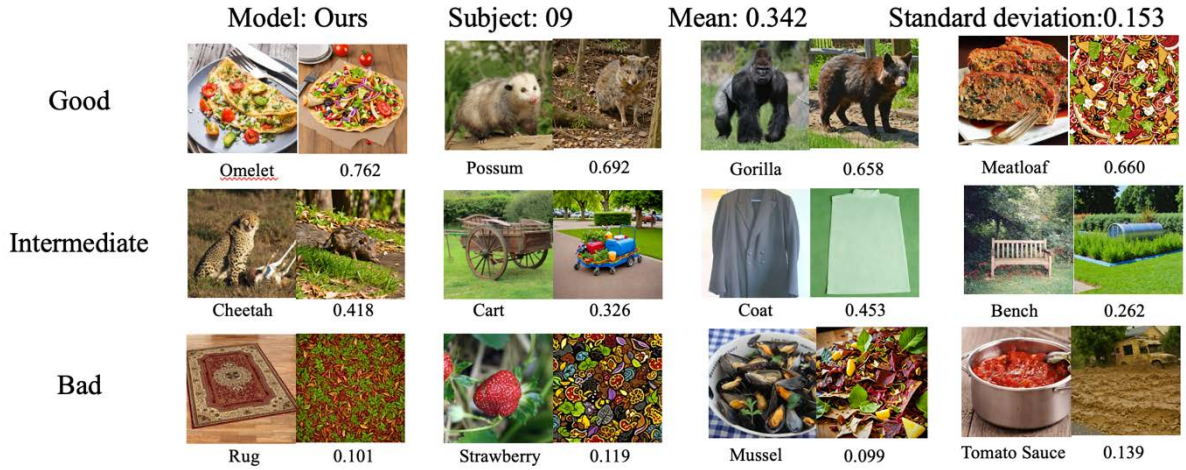
Supplement Figure 22. The different semantic scores of generated images in the subject 05.



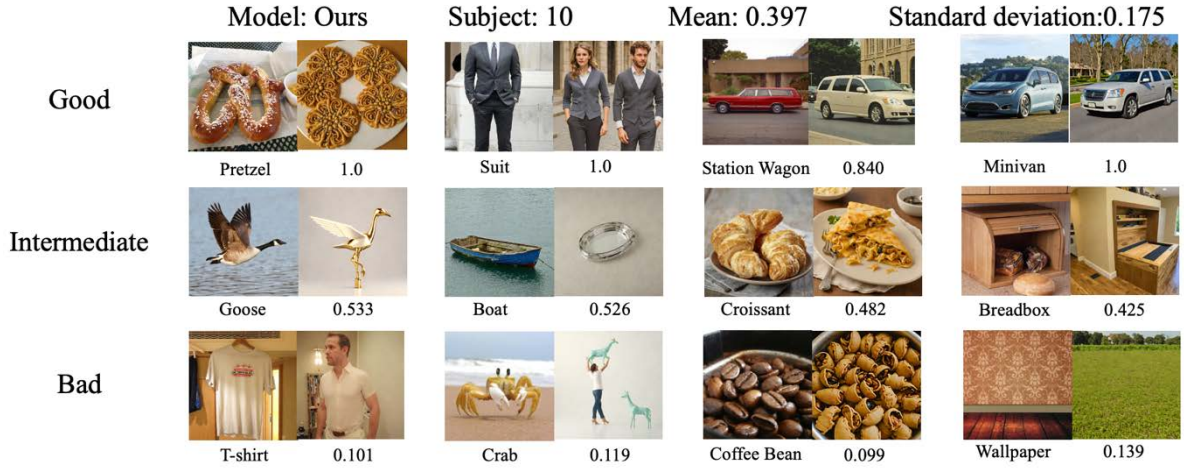
Supplement Figure 23. The different semantic scores of generated images in the subject 06.



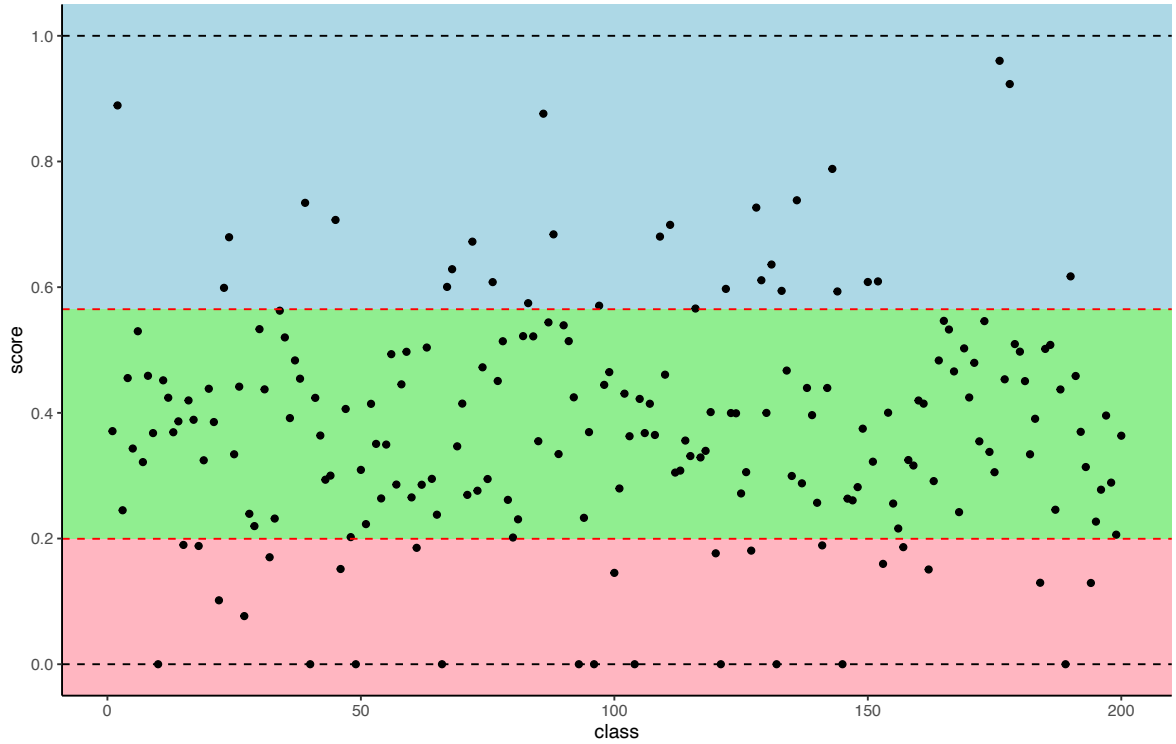
Supplement Figure 24. The different semantic scores of generated images in the subject 07.



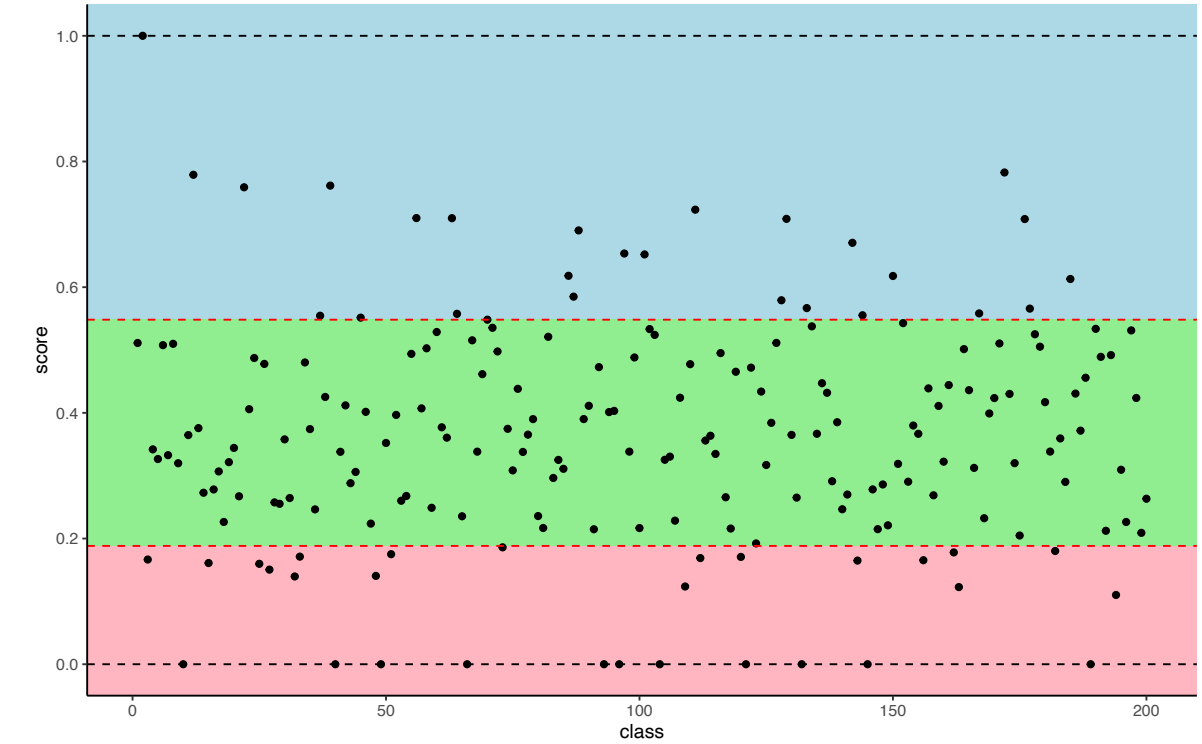
Supplement Figure 25. The different semantic scores of generated images in the subject 09.



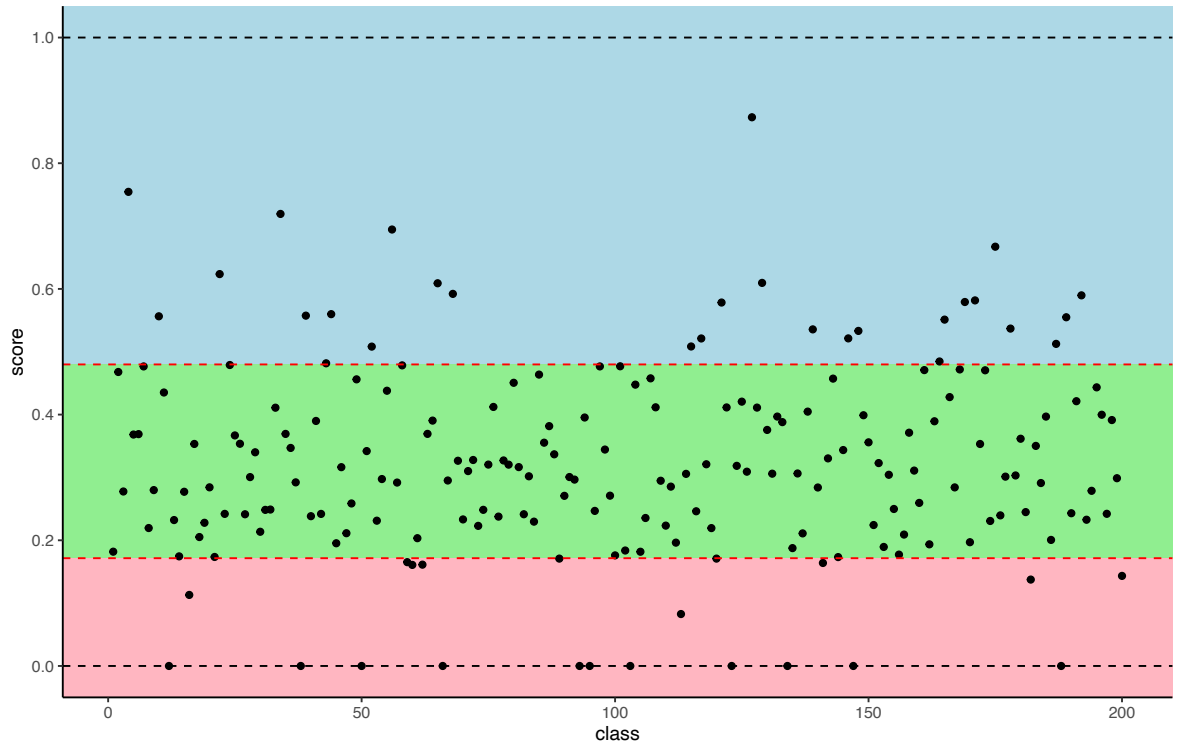
Supplement Figure 26. The different semantic scores of generated images in the subject 10.



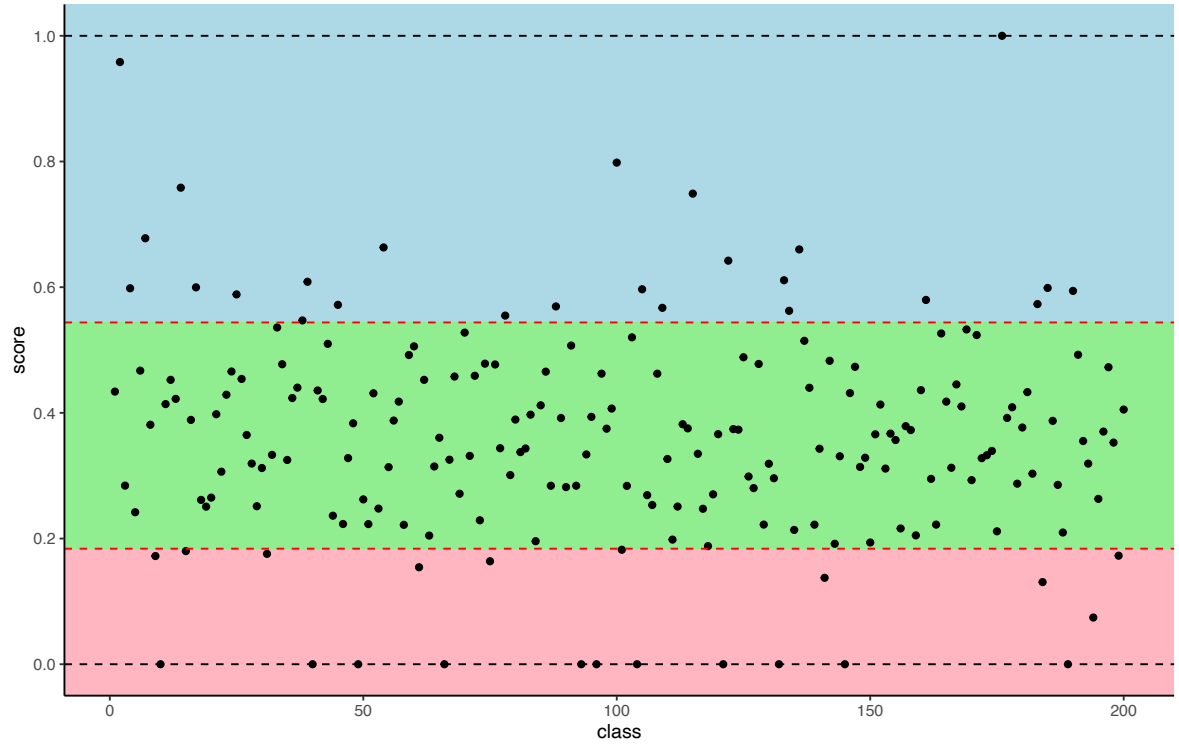
Supplement Figure 27. The different semantic scores distribution scatter plot of all classes in the subject 08 calculated with the images generated with our model. The parting lines are defined by the mean and the standard deviation. The blue part refers to the images whose semantic scores are over (mean + std). The red part refers to the images whose semantic scores are below (mean - std). The green part refers to the rest images.



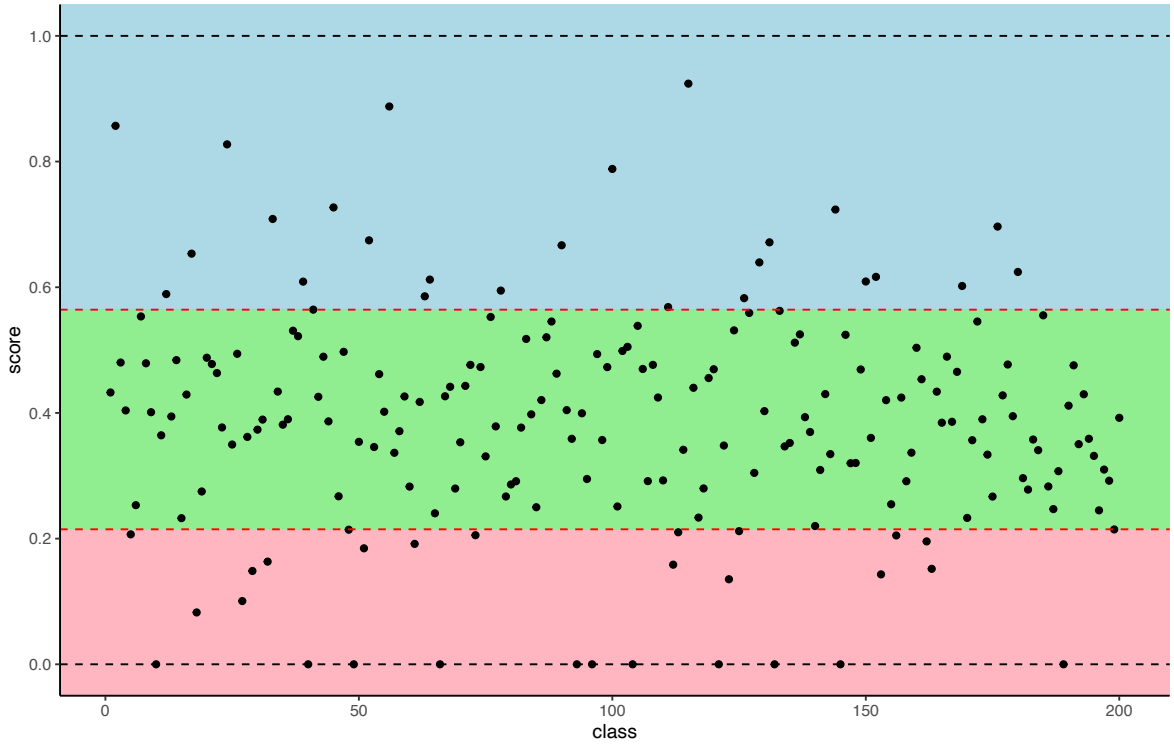
Supplement Figure 28. The different semantic scores distribution scatter plot of all classes in the subject 08 calculated with the images generated with ATM-S model.



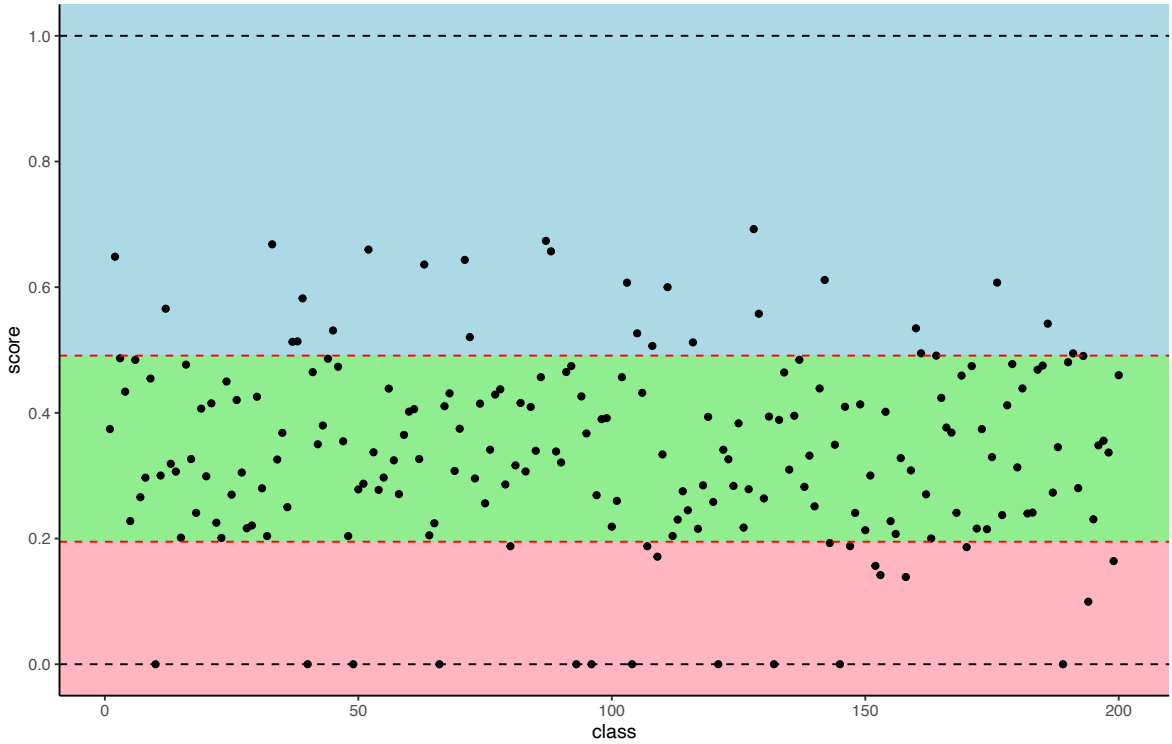
Supplement Figure 29. The different semantic scores distribution scatter plot of all classes in the subject 08 calculated with the images generated with ATM-E model.



Supplement Figure 30. The different semantic scores distribution scatter plot of all classes in the subject 08 calculated with the images generated with NERV model.



Supplement Figure 31. The different semantic scores distribution scatter plot of all classes in the subject 08 calculated with the images generated with NICE model.



Supplement Figure 32. The different semantic scores distribution scatter plot of all classes in the subject 08 calculated with the images generated with EIT-ResNet model.