Scenario 1:

I would use Mann-Whitney to test the median reaction times of the different independent rock types without assuming normality.

Scenario 2:

I would use the Wilcoxon signed-rank test because in this case, the samples are paired since we are comparing the age of each subject before and after treatment with the vaccine.

Scenario 3:

For the same reason as in scenario 2, I would use the Wilcoxon signed-rank test. I would use this test rather than the sign test since it is more sensitive and uses magnitude. I would conclude that the result indicates increased liking if the paired differences have a positive median and the Wilcoxon test is significant in the direction of positive differences.