# **Stereochemistry Exercises**

Name:	Date:
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For these exercises you may use molecular models and/or the 3-D images provided. After completing the question please indicate what method you used to solve it using the provided answers.

1. Indicate whether the following molecule is "R" or "S":

For the previous question did you use:

Molecular model kit 3-D computer drawings Both Neither

2. How many chiral centers does the following molecule have?

For the previous question did you use:

### 3. How are the following molecules related?

For the previous question did you use:

Molecular model kit 3-D computer drawings Both Neither

#### 4. Choose the enantiomer of the compound below:

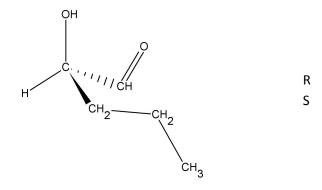
For the previous question did you use:

### 5. How are the following compounds related?

For the previous question did you use:

Molecular model kit 3-D computer drawings Both Neither

# 6. Indicate whether the following molecule is "R" or "S":



For the previous question did you use:

## 7. Is the following compound meso?

For the previous question did you use:

Molecular model kit 3-D computer drawings Both Neither

## 8. How are the following molecules related?

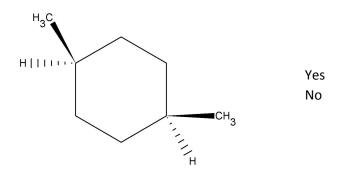
For the previous question did you use:

9. Does the following molecule have a plane of symmetry?

For the previous question did you use:

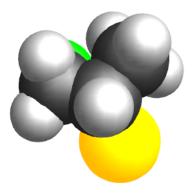
Molecular model kit 3-D computer drawings Both Neither

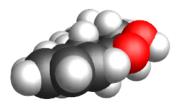
# 10. Is the following molecule chiral?

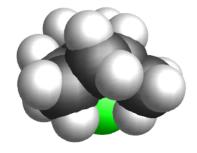


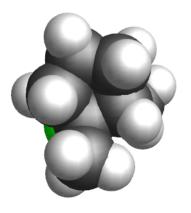
For the previous question did you use:

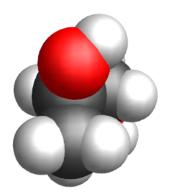


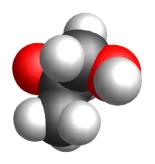


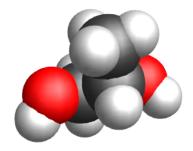




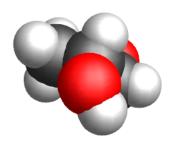


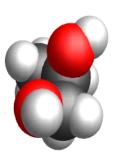






A B





C D



