

# Contents List

## 3-Group Amino Acid Starter Kit® Contains

- 3 **Chemical Properties Circles** (AASK-R-Circle)
- 3 Sets of 22 **Clear Bumpers** (AASK-R-Bumpers)
- 3 Sets of 22 **Amino Acid Side Chains** (1 each of the 20 amino acids plus 1 additional cysteine and 1 additional histidine) (AASK-R-Side Chain Set)
- 3 Laminated **Amino Acid Side Chain Charts** (AASK-R-Amino Acid Side Chain Chart)
- 3 **4' Mini Toobers** (AASK-R-Toobers)
- 3 Sets of **Red and Blue Endcaps** (AASK-R-Endcaps Set)
- 3 Sets of **Plastic Clips** (8 yellow, 8 white, 2 blue, 2 red and 2 green in each set) (AASK-R-Plastic Clips Set)
- 3 Sets of 6 **Hydrogen Bond Connectors** (AASK-R-Hydrogen Bond Connectors Set)

## Assembly

Your Amino Acid Starter Kit® includes five improved pieces: Properties Circle, bumpers, side chains with post fitting, plastic clips, and center post and clips.



Properties Circle with side chains and clips attached to bumpers



Affixing bumper to circle



Inserting side chain into plastic clip



Twisting center post from frame



Inserting center post into clip

Directions for affixing the bumpers to the Properties Circle are found in Student Handout 1 and the Student Handout 1 Key.

**⚠ WARNING:**

**CHOKING HAZARD** -- This product contains small parts and should be kept out of the reach of children under the age of 3, because the parts or their pieces may present a choking hazard to small children.

**CAUTION:**

This is a science education product, not a toy. It is not intended for children under 8 years old.



## Preserving Your Amino Acid Starter Kit

You can extend the life of your Amino Acid Starter Kit pieces by:

1. Loosely coiling the mini toobers after removing the plastic clips. Clips left on or tightly creasing the mini toobers will compress the foam. Tightly twisting while using the mini toobers could permanently compress the foam.
2. Alternating the orientation of your Properties Circles - if you have more than one kit - when storing them in your kit box. Orient your first circle with the bumpers pointing up. Put the next circle on top of it with the bumpers pointing down (see photo to the right). Rotate the circle as needed until the bumpers are nestled between each other. Repeat this process with your remaining kits (see photos below). By using this method you will be able to store up to six Properties Circles in your kit box after the bumpers are attached. This method will reduce the chance of them being bent or damaged.



## Properties Circle Tips

1. You can attach magnetic tape to the back of your circle to use it on your magnetic whiteboard/blackboard (see right). The side chains will attach to the bumpers securely enough to stay in place while the circle is displayed. If a side chain is not staying in place, try turning the clip to a vertical position.
2. You can protect your Properties Circles during use by placing them in pizza pans (not shown).
3. You can also store the Properties Circles in pizza pans (not shown).

