

## Lesson 15

When the students are making the green dough continents in Inquiry 15.2, it is easier to make the continents by flattening out the dough, laying the stencil face-down over the dough (so you are looking at the continent in reverse), and then running a sharp toothpick (included in the kit) around the perimeter of the continent. When students pull up the stencil, they can just pull away the outside, unwanted dough. When they flip over the continent, it should have clean, crisp edges.

When the class is completing Step 8 of Inquiry 15.2 (Student Guide pg. 177), which uses the Moving Plates Model<sup>TM</sup>, make certain that students pinch the outside edges of their dough continents slightly onto the red and black belt before colliding their continents together. With the outside edges of the continents adhered to the belt, the colliding continents will fold upward and form what is equivalent to a mountain range along the colliding boundary.

When the class is completing Inquiry 15.3 using the Fault Laboratory<sup>TM</sup>, be sure that students place 1–2 tongue depressors along the outside of the moving block of wood. This tip is listed in the Teacher’s Guide and Student Guide, but it may be overlooked. These extra tongue depressors ensure that the connection along the fault is tight. Tongue depressors are included in the unit kit, although they are not packed in the Fault Laboratory<sup>TM</sup> bags.

Also during Inquiry 15.3, use the masking tape along the fault to show the effects of “creep.” Again, this is outlined in the Student Guide but can be easily overlooked.

## Lesson 16

During use of the jar of rheoscopic fluid, move the jar over the tea candle to model a hot spot (and the formation of an island chain).

## Lesson 19

Although the Model Magma<sup>TM</sup> must be made in advance, it should not be made more than one week ahead of time, due to its short shelf life. If the substance separates during this one-week period, simply use the wooden paint stick to re-agitate the Model Magma<sup>TM</sup> by moving the stick up and down in the container. (A wooden paint stick is included in the unit kit, although it is not included in the Model Magma<sup>TM</sup> box.) Students can also agitate the substance within their smaller containers to remix it. However, if the Model Magma<sup>TM</sup> ingredients completely separate, discard that batch and mix up a fresh one.

The lid may also adhere to the jar over time. Simply run the lid under hot water and tap it to loosen the dried glue.