

Above & Below

Materials list — everything needed for the eight-step project

AHS Worldwide | Earth Science | Unit 1 Project | Upper Elementary

HOW TO USE THIS LIST: Gather these before Step 1.

Print Before You Begin

- ☐ The Above & Below worksheet — your student writes in it during every step, so print the whole packet before Step 1
- ☐ Page 8 prints sideways — it is the large picture labeled in Step 5, and may be colored

Materials Needed

- ☐ Play dough in 4 different colors — about a fist-sized lump in total
- ☐ 1 piece of dental floss, about as long as your arm — for cutting the Earth open
- ☐ 1 plate to cut on
- ☐ 4 toothpicks and 4 small pieces of paper — for the layer flags
- ☐ 2 towels, plus one other piece of cloth to compare against
- ☐ A pencil and a ruler
- ☐ Colored pencils or crayons
- ☐ A phone or camera — for one photo and one video

Helpful but Not Required

- ☐ A tray or cookie tin, if you want to move the models without wrecking them
- ☐ Food coloring, if you are making salt dough from scratch

NO PLAY DOUGH? Mix 2 cups flour, 1 cup salt, and about 1 cup water until it is smooth like clay. Split it into 4 lumps and stir a different food coloring into each one. It cuts even better than play dough.

ABOUT THE CLOTH: Steps 6 and 7 need two pieces of cloth for the two plates, plus a third of a different kind, because the test is run twice and the materials compared. Bath towels, hand cloths, and dish towels all work, and nothing needs cutting.

What Gets Turned In

- ☐ End of Step 4 — one photo of the Earth, cut open, with all four flags standing
- ☐ End of Step 8 — one video, 2 to 3 minutes, with both models in the shot

SAFETY: A grown-up helps with the floss cut in Step 4. Pull the floss straight down through the dough, on a plate, with fingers well out of the way. Do not eat the dough. This project needs no craft knife, hot glue, heat, or electricity.