

Module Transcript C

Teacher: “Good morning, class! Today, we'll explore how the Earth's surface moves and changes over time. Let's start with a story.”

[She opens the book and begins reading. While most students are engrossed, a few appear distracted.]

Teacher: “...and that's why continents look like they fit together like puzzle pieces!”

[She closes the book.]

Teacher: “So, can anyone explain to me what plate tectonics is?”

[Many hands rise, but one student, Timmy (Target Student), is poking his neighbor.]

Teacher: “Timmy, please have a seat.”

[Timmy sits down, looking a bit embarrassed.]

Teacher: [Pointing to a non-target student] “Yes, Jenny?”

Jenny (non-target student): “It's like pieces of Earth's crust that move around on the molten rock below?”

Teacher: “Good job, Jenny! That's correct. The Earth's crust is broken into pieces called tectonic plates, and they float and move on the semi-fluid layer underneath called the mantle.”

Teacher: “Now, when these plates move, what do you think happens?”

[A few hands shoot up.]

Teacher: [Pointing to a non-target student] “Jason?”

Jason (non-target student): “Um, they can crash into each other or move away?”

Teacher: “Excellent response, Jason! When plates move towards each other, it's called a convergent boundary; when they move apart, it's a divergent boundary.”

Teacher: “Alright, let's watch a short film to see this in action.”

[The lights dim, and a captivating animation about plate tectonics begins. The students are visually drawn to the movements and collisions of the plates.]

Teacher: “Timmy, remember to pay attention. This will help with our next activity.”

[The video ends and the lights come back on.]

Teacher: “Now, I'd like you all to open your science journals and write down three things you've learned about plate tectonics.”

[The sound of pens and pencils moving fills the room. Timmy is writing too.]

Timmy: “Can I go to the bathroom?”

Teacher: “Ok but go quick and remember to wash your hands.”

[Timmy leaves the room.]

Teacher: “Who would like to share something they wrote?”

[A few hands go up.]

Teacher: [Pointing to a non-target student] “Ana, what did you write?”

Ana (non-target student): “I wrote that when two plates push against each other, they can form mountains!”

Teacher: “Exactly, Ana! When two plates converge or come together, they can push the Earth's crust up to form mountain ranges. Great observation!”

Teacher: [Looking around the room and pointing to another non-target student] “And Carlos, what about you?”

Carlos (non-target student): “When plates move apart, like in the middle of the ocean, new crust can form?”

Teacher: “Absolutely right, Carlos! At divergent boundaries, especially at mid-ocean ridges, molten rock or magma rises from the mantle to form new crust as it cools. Well done!”

[There's a slight pause, and then the door quietly opens as Timmy returns.]

Teacher: “Welcome back, Timmy. Did you catch what Carlos just shared?”

Timmy: “Um, something about new crust forming in the ocean?”

Teacher: “Yes, exactly! I'm glad you caught that.”

[After the brief discussion, the bell rings.]

Teacher: “Great job today, class! We'll be ending a bit early for lunch today. Remember to think about how our Earth moves beneath our feet!”