

Materials Needed:

- Computer with internet access
- Paper and pencils or colored pencils
- Access to Google Earth or online topographic maps
- Image of a Fortnite map (current or past season)

Fortnite Earth Science Adventure!

Hey there! Ready to become an Earth Science expert, just like being a pro-builder in Fortnite? Today, we're going to explore how the real world's geography and resources are super similar to the island you explore in Fortnite. Understanding Earth Science can actually make you a smarter player!

Activity 1: Master Mapper

Just like you need to know the Fortnite map to plan your drops and rotations, scientists and explorers need to understand maps of Earth!

1. **Explore the Island:** Look at the Fortnite map image. Can you find different *landforms*? Point out areas that look like mountains, rivers, lakes, islands, or flat plains. Are there named locations near specific landforms?
2. **Real World Mapping:** Now, let's use Google Earth or an online topographic map. Find our local area or a place you know. Can you spot similar landforms like hills, rivers, or valleys?
3. **Grid Coordinates:** See the letters and numbers on the edge of the Fortnite map (like D5, G7)? That's a grid system! It helps pinpoint locations. Real maps use latitude and longitude, or grid systems like UTM. Practice finding a specific coordinate on the Fortnite map (e.g., 'Meet me at F3!') and then try finding a general location using coordinates on a real map.

Activity 2: Resource Rush

In Fortnite, you need wood, brick (stone), and metal to build defenses. Earth provides us with amazing natural resources too!

1. **Fortnite Materials:** Where do you gather wood, stone, and metal in Fortnite? (Trees, rocks, cars/metal objects). Why are these materials important for survival in the game?
2. **Earth's Resources:** Think about the real world. Where do we get wood? (Forests). Stone? (Quarries, mountains). Metal? (Mined from the ground as ore). Why are these resources important for building homes, roads, and everything around us?
3. **Resource Distribution:** Are resources spread evenly across the Fortnite map, or are some areas better for certain materials? Similarly, Earth's resources aren't spread evenly. Some places have lots of forests, others deserts, some have rich mineral deposits. Draw a simple map of your room or backyard and mark where different 'resources' (like pencils, books, toys) are located. Are they scattered or clustered?

Activity 3: Weather the Storm!

That shrinking storm in Fortnite is intense! Real-world weather can also create dangerous conditions.

1. **The Storm Circle:** How does the storm in Fortnite work? (Shrinks over time, forces players into smaller areas, deals damage). It pushes everyone together.
2. **Real Weather Hazards:** What are some real-world weather events that force people to seek shelter or move? (Hurricanes, tornadoes, blizzards, floods). How do weather forecasts help people prepare?

3. **Safe Zones:** The 'eye of the storm' in Fortnite is the safe zone. In real weather events, where are safe places to be? (Basements during tornadoes, sturdy buildings during hurricanes, staying indoors during blizzards). Understanding weather patterns helps us stay safe!

Wrap-up: Victory Royale!

See? Understanding Earth Science – maps, resources, and weather – isn't just for school. It helps us understand the world around us and even helps us strategize in games like Fortnite! You've explored landforms, resources, and storm patterns like a true Earth Science champion!