Physical World: Scientific Investigation Worksheet

Name: _____ Date: _____ Class: _____

PART 1: SCIENTIFIC PHENOMENON OBSERVATION

Climate patterns on Earth are determined by factors including latitude, altitude, ocean currents, and prevailing winds. These patterns create distinct climate zones from the equator to the poles, affecting temperature, precipitation, and seasonal variations.

I notice:

I wonder:

EARTH'S SYSTEMS IDENTIFICATION

Label each description with the correct Earth system: Lithosphere, Hydrosphere, Atmosphere, or Biosphere.

1. _____ Major mountain ranges on Earth
2. _____ Rivers and lakes across continents
3. _____ Global climate patterns
4. _____ Plant and animal life in various regions
5. _____ Natural resources found in the crust
6. _____ Ocean currents affecting coastal regions
7. _____ Weather patterns across the globe
8. _____ Ecosystems in different biomes

PART 3: DATA COLLECTION & ANALYSIS

Collect data about the geographic features of Physical World using the table below.

Feature	Observations	Significance
Climate		
Landforms		
Water Features		
Vegetation		

Analysis Questions:

1. What patterns do you notice in the data? _____

2. How do these features interact with each other? _____

3. What might explain these geographic patterns? _____

PART 4: MODEL DEVELOPMENT

Create a model showing how the geographic features of Physical World interact. Label each feature and draw arrows showing the interactions.

Draw your model in this space

Model Key:

Arrow direction shows: _____

Dotted lines represent: _____

PART 5: SCIENTIFIC EXPLANATION

Using your model and what you've learned about Physical World, explain how the geographic features of this region influence human settlement and activities.

PART 6: REFLECTION

Complete the following sentences:

My model shows _____ about Physical World because:

One way humans have adapted to the geography of Physical World is: