Name	

## **Dear Earth Detective**

**Instructions:** Read each letter and respond with a short-answer explanation that includes correct scientific reasoning. Use full sentences, and include keywords like rotation, revolution, axis, tilt, orbit, and Sun when possible.



Letters from Around the World
1. Dear Earth Detective,
My name is Lily, and I live in Canada. Why is it freezing in January here but my cousin in
Australia is going to the beach?
– Confused by Cold and Sun
Your Reply:
2. Dear Earth Detective,
I don't get it. One moment it's bright outside, and a few hours later, it's pitch black. Why
does that happen?
– Loves the Light, Hates the Night
Your Reply:
3. Dear Earth Detective,
My teacher said something about Earth being tilted. What does that even mean, and what does it do?
– Tilting Toward the Truth
Your Reply:
4. Dear Earth Detective,
If Earth spins all the time, why don't we feel it?
– Dizzy in Denmark
Your Reply:

