

Atmosphere

All the gases above your head
and in your lungs

01

Geosphere

All the earth materials around
you and beneath your feet

02

Hydrosphere

All the water in the air and on
land (and underground, etc)

03

Spheres of Earth

04

Cryosphere

Part of the hydrosphere and it's
all the frozen parts of water

05

Biosphere

All the living things on Earth, in
Earth, and around Earth

06

Other...

Cause scientists can't ever really
agree on the correct number of
anything it seems like...



Energy Needed

Energy is needed to move material between the spheres. What are some examples of energy being transferred from one sphere to another?

EPISODE 6.1

FOUR SPHERES

PART 1



EPIISODE 6.2

FOUR SPHERES

PART 2



**How do spheres
interact with
each other?**

EPISODE 10.1

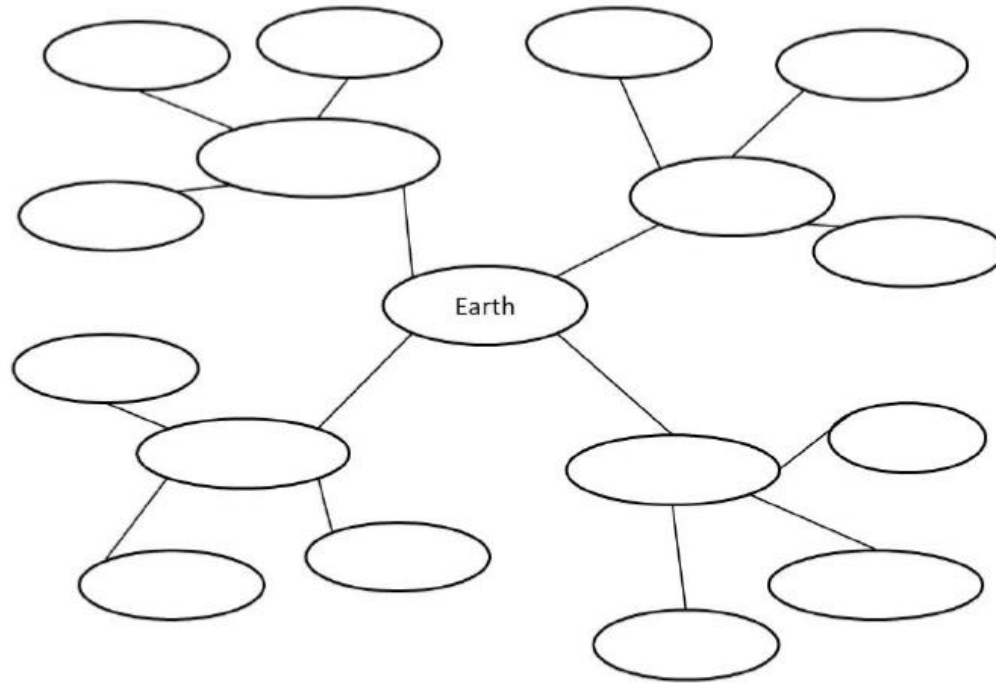
WHAT ON EARTH



Spheres of the Earth: Concept Map

Make a concept map with the following terms:

Earth, hydrosphere, animals, atmosphere, rocks, lithosphere, biosphere, oxygen, oceans, bricks, ozone, rivers, plants, mountains, bacteria, wind, snow



Which sphere would these words belong in?

Atmosphere

Rocks

Oxygen

Bacteria

Geosphere

Animals

Snow

Wind

Hydrosphere

Cryosphere

Ozone

Rivers

Mountains

Biosphere



The background features a complex network of white lines and dots on a teal gradient. The lines connect various points, creating a web-like structure that is denser on the left and more sparse on the right. Some points are larger than others, and there are several isolated dots scattered throughout the space. The overall aesthetic is clean, modern, and technical.

Analyze

Pick a location on Earth and
analyze it for the five spheres.

Assignment Expectations

Look up pictures and research into your chosen location. What do you observe about that location in terms of spheres?

**Analyze
Location**

On your whiteboard, write down some parts of your location and fit into the five spheres.

Five Spheres



Padlet!

Add what you found about your location to the Padlet that is linked in Google Classroom.

The background is a solid teal color. Overlaid on this is a network diagram consisting of numerous white circular nodes of varying sizes. These nodes are interconnected by thin white lines, forming a complex web of connections. Some nodes are larger than others, and the lines vary in thickness. The overall effect is that of a digital or social network. The text is centered in the right half of the image.

**What did you find
about your location's
five spheres?**

Today's Schedule



Choose

Pick one of the spheres
you think is the most
important for life on
Earth

Find facts to provide
evidence to support your
opinion

Research



Debate

Come back into the main
room to defend your
position with everyone else

**How does it
help the
humans?**

Things to Consider

**How does it
help the
other
sphere?**

**What would
happen if that
sphere didn't
exist?**



Let's Prepare for a Debate!

- Pick the breakout room you think is the most important
- Work with the people in your breakout room to create your position
- Decide who is doing what:
 - Giving your group's position at the beginning
 - Going to participate in the free-for-all

Suggestion? Write down on a piece of paper or whiteboard what you are going to say



The background is a solid teal color. Overlaid on this are several white network diagrams. These diagrams consist of small white circular nodes connected by thin white lines, forming a complex web of connections. The nodes are scattered across the frame, with some clusters and some isolated points. The lines vary in length and orientation, creating a sense of dynamic connectivity. The overall aesthetic is clean, modern, and tech-oriented.

**Defend your
sphere!**

Debate Format

1. Introductions

2. Back and Forths

3. Conclusions



The background is a solid teal color. Overlaid on this are several abstract geometric patterns. These consist of white dots (nodes) connected by thin white lines (edges). The connections form various shapes, including triangles, quadrilaterals, and larger, more complex polygons. Some nodes are isolated, while others are part of dense clusters. The overall effect is that of a network or a complex geometric structure.

**Which sphere do you
think won? Why?**