

## Earth's Atmosphere Video Guide (Station \_\_1\_\_)

### Video 1 – Our Restless Planet

\_\_\_\_\_ is the term used to sum up our atmosphere

The term **atmosphere** is defined as the \_\_\_\_\_

The term composition can mean \_\_\_\_\_

The main gases found in our atmosphere are \_\_\_\_\_

The rate of change of these gases is contributed to \_\_\_\_\_ because ever since there has been an \_\_\_\_\_ in \_\_\_\_\_

### Relationship to the 4 main essential questions

### Video 2 – Atmosphere

Our atmosphere is \_\_\_\_\_ and without it Earth would \_\_\_\_\_

\_\_\_\_\_ holds the atmosphere in place.

The \_\_\_\_\_ gases are to the surface of Earth, \_\_\_\_\_

The higher you go in elevation, \_\_\_\_\_; which means the air is less \_\_\_\_\_ (thinner)

Nitrogen makes up \_\_\_\_\_ Oxygen makes up \_\_\_\_\_

Clouds are a concentration of \_\_\_\_\_

\_\_\_\_\_ holds more moisture than \_\_\_\_\_

All layers of the atmosphere are \_\_\_\_\_

### Relationship to the 4 main essential questions

## Earth's Atmosphere Video Guide (Station \_\_2\_\_)

### Video 3 – Earth's Atmosphere (watch only the first 2:20)

\_\_\_\_\_ a protective blanket of air; Contains mainly \_\_\_\_\_ & \_\_\_\_\_

Nitrogen: important to living \_\_\_\_\_ (proteins and chemicals contain nitrogen)

Oxygen: take \_\_\_\_\_ from atmosphere and use it to release \_\_\_\_\_

Atmosphere helps in many ways (discusses three)...

- 1.
- 2.
- 3.

### Relationship to the 4 main essential questions

### Video 4 – Earth's Atmosphere

The Atmosphere is a \_\_\_\_\_ shield

- \_\_\_\_\_% of UV Rays are \_\_\_\_\_ by the atmosphere; \_\_\_\_\_% of UV Rays are \_\_\_\_\_ by clouds; \_\_\_\_\_% of UV Rays are \_\_\_\_\_ by oceans/land; \_\_\_\_\_ passes through

The planet is warmed by the \_\_\_\_\_

- Gases such as \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_ absorb & trap heat
- However, this can be TOO MUCH OF A GOOD THING; the narrator says this because..... (provide examples)

If there is an \_\_\_\_\_ in pressure, the density \_\_\_\_\_

Air moves from \_\_\_\_\_ to \_\_\_\_\_

- This movement creates \_\_\_\_\_
- \_\_\_\_\_ is defined as the \_\_\_\_\_ movement of \_\_\_\_\_ over Earth's surface
- Rising \_\_\_\_\_ air & sinking \_\_\_\_\_ air creates \_\_\_\_\_

### Relationship to the 4 main essential questions

## Earth's Atmosphere Video Guide (Station \_\_3\_\_)

### Video 5 – Carbon in the Atmosphere

\_\_\_\_\_ retains energy as heat

- It warms \_\_\_\_\_ = why it's called a \_\_\_\_\_ gas

Many think that Carbon Dioxide is responsible for \_\_\_\_\_ in global \_\_\_\_\_

Can we plant enough plants to absorb all the Carbon Dioxide we are releasing? Why?

- Humans are \_\_\_\_\_ more Carbon Dioxide at a \_\_\_\_\_ rate than what occurs \_\_\_\_\_

Too much Carbon Dioxide trapped in the atmosphere could contribute to \_\_\_\_\_

### Relationship to the 4 main essential questions

### Video 6 – Problems with Fossil Fuels

3 main things affect the planet...

1. \_\_\_\_\_ (non-renewable)

- Cause \_\_\_\_\_
- \_\_\_\_\_ acts like a blanket, but when too much \_\_\_\_\_ blanketing effect

2. \_\_\_\_\_

- As \_\_\_\_\_ has more effect on atmosphere, planet becomes \_\_\_\_\_

3. \_\_\_\_\_

- Chemicals combine with \_\_\_\_\_
- Can harm \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ --

### Relationship to the 4 main essential questions