***Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Today’s Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

***Multiple choice is 1-3. Short answer is 4-6:***

1. What does a dendrochronologist do?

1. Finds the age of the tree by counting the rings.
2. Looks at the thickness of the ring to study climate.
3. Analyzes fire scars to determine when they happened and how often.
4. All of the above.

2. What does an archaeologist do?

1. Collect rainfall data in an area.
2. Analyze old villages and agricultural plots.
3. Excavate dinosaur bones to create a full skeleton
4. Look at river bends for rock deposits.

3. What does a climatologist do?

1. Forecasts the weather for the next 4 days.
2. Asks people to describe the weather during their lives.
3. Studies data collected from instruments and glaciers
4. Warns people about upcoming natural disasters.

4. What 3 things make a forest healthy?

5. Why did forests start to become unhealthy in the 20th century?

6. What is climate?

***True or False***

7. \_\_\_\_\_\_ Forest fires always destroys forests.

8. \_\_\_\_\_\_ Forest fires are bad and need to be suppressed.

9. \_\_\_\_\_\_ On many trees, each tree ring represents 1 year of tree growth.

10. \_\_\_\_\_\_ During good growing conditions, annual growth tree rings will be wider while in years of stressful growing conditions, the tree rings will be narrower.

11. \_\_\_\_\_\_ Ground Fires burn in the canopy (or top of trees).

12. \_\_\_\_\_\_ Big severe fires can be stopped by human suppression efforts.

13. \_\_\_\_\_\_ High Severity fires appear more common in the last 100 years.

14. \_\_\_\_\_\_ Fire suppression has contributed to ‘fuel’ build up on the forest floor.

Making connections:

15. The Fire Triangle (small scale) shows how fire is a simple chemical reaction requiring 3 components. Please circle the correct 3 components.

*Fuel Topography Heat Oxygen Animals*

16. The following practice has contributed to fuel build-up on the forest floor? Circle 1 choice.

*Collecting tree logs Fire Suppression Livestock grazing*

17. Tree rings can tell us many things about a tree. Circle the 1 Incorrect Choice.

*The Age of the Tree Month the tree was cut Climate History*

*Drought Years Fire Years*

***Answer Key***

***Multiple choice is 1-3. Short answer is 4-6:***

1. What does a dendrochronologist do?

1. Finds the age of the tree by counting the rings.
2. Looks at the thickness of the ring to study climate.
3. Analyzes fire scars to determine when they happened and how often.
4. All of the above.

2. What does an archaeologist do?

1. Collect rainfall data in an area.
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3. Excavate dinosaur bones to create a full skeleton
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3. What does a climatologist do?

1. Forecasts the weather for the next 4 days.
2. Asks people to describe the weather during their lives.
3. Studies data collected from instruments and glaciers
4. Warns people about upcoming natural disasters.

4. What 3 things make a forest healthy?

*Small frequent fires, space between trees (no overcrowding), adult trees not competing with young trees, sunlight, water.*

5. Why did forests start to become unhealthy in the 20th century?

*Forests become unhealthy at this time: because of the practice of fire suppression (extinguishing a fire following its detection) by humans.*

6. What is climate?

*Climate is the average weather over a long period of time.*

***True or False***

7. **F** Forest fires always destroy forests.

8. **F**  Forest fires are bad and need to be suppressed.

9. **T** On many trees, each tree ring represents 1 year of tree growth.

10. **T** During good growing conditions, annual growth tree rings will be wider while in years of stressful growing conditions, the tree rings will be narrower.

11. **F** Ground Fires burn in the canopy (or top of trees).

12. **F** Big severe fires can be stopped by human suppression efforts.

13. **T** High Severity fires appear more common in the last 100 years.

14. **T** Fire suppression has contributed to ‘fuel’ build-up on the forest floor.

**Making connections:**

15. The Fire Triangle illustrates (shows) how fire is a simple chemical reaction requiring 3 components. Please circle the correct 3 components.

*Fuel Topography Heat Oxygen Animals*

16. The following practice has contributed to heavy fuel build-up on the forest floor? Circle 1 choice.

*Collecting tree logs Fire Suppression Livestock grazing*

17. Tree rings can tell us many things about a tree. Circle the 1 Incorrect Choice.

*The Age of the Tree Month the tree was cut Climate History*

 *Drought Years Fire Years*