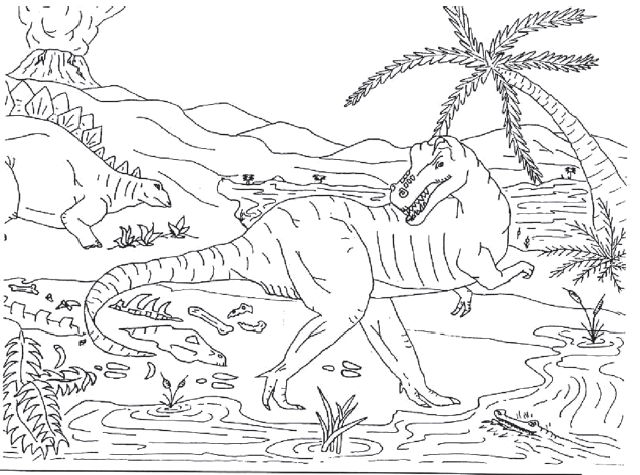
A time machine has been invented that travels into the past and takes pictures, sending them to the present. You are asked to look at one of the pictures and interpret what you see.



**Use either observation (O) or Inference (I) for the following:**

\_\_\_\_ 1. The volcano is erupting.

\_\_\_\_ 2. The camptosaurus is going to eat the stegosaurus.

\_\_\_\_ 3. The stegosaurus will run into the water to escape.

\_\_\_\_ 4. The camptosaurus is leaving tracks in the ground.

\_\_\_\_ 5. The ground where the camptosaurus is walking is wet.

\_\_\_\_ 6. There are plants growing in the water.

\_\_\_\_ 7. The camptosaurus is going into the water to eat the plants.

\_\_\_\_ 8. There is a tree growing next to the river.

\_\_\_\_ 9. The tree looks like a palm tree.

\_\_\_\_ 10. The climate is warm.

\_\_\_\_ 11. The stegosaurus is eating the plant.

\_\_\_\_ 12. The stegosaurus is an herbivore.

\_\_\_\_ 13. There are bones from a dead animal by the shore.

\_\_\_\_ 14. The camptosaurus killed the animal.

\_\_\_\_ 15. Some more bones are in the water.

\_\_\_\_ 16. The camptosaurus can’t swim and will drown.

\_\_\_\_ 17. Lava is corning down the sides of the volcano.

\_\_\_\_ 18. The camptosaurus has sharp teeth for eating meat.

Suppose you are a paleontologist and you have just discovered a layer of rock with many fossils in it, both petrified bones and tracks.



Decide whether the following statements are observations or inferences.

A. Observation B. Inference

19. \_\_\_**\_**\_ There are tracks from three different animals in the rock.

20. \_**\_\_\_**\_ One animal was chasing another animal.

21 \_**\_\_**\_\_ Two different animals died in this spot.

22. \_**\_\_**\_\_ When the animals walked here the ground was wet.

23. \_**\_\_**\_\_ One of the animals that died here had bony plates.

24. \_**\_\_\_**\_ One of the animals that died here had sharp teeth.

25. \_**\_\_\_**\_ The animal that had sharp teeth ate meat.

**Qualitative Observations vs. Quantitative Observations**

All of the observations in this worksheet were qualitative; that is, you observed a quality about an object (it smelled good, it was green, etc.). Another type of observation is quantitative, meaning that it can be described or measured in concrete numerical terms.

* The following observations are quantitative: There are 30 students in my class. I weigh 98 pounds. I ate a pound of potatoes.

Determine which of the following statements are quantitative and which are qualitative

\_\_\_\_\_1. The cup had a mass of 454 grams. \_\_\_\_2. The temperature outside is 250o C.

\_\_**\_\_**\_3. It is warm outside. \_\_**\_**\_4. The tree is 30 feet tall.

\_\_**\_\_**\_5. The building has 25 stories. \_\_**\_**\_6. The building is taller than the tree.

\_\_**\_**\_\_7. The sidewalk is long. \_\_**\_**\_8. The sidewalk is 100 meters long.

\_\_**\_\_**\_9. The race was over quickly. \_\_**\_**\_10. The race was over in 10 minutes

In each of the following, make an observation, prediction and inference about each picture

Observation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prediction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Inference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Observation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prediction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

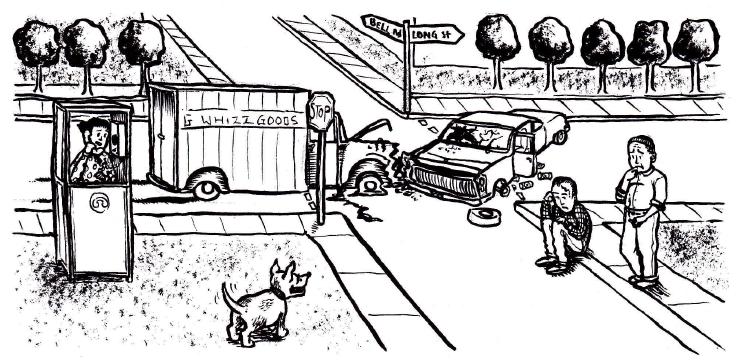
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Inference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



Observation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prediction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Inference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_