

WALK CHALLENGE – SCAVENGER HUNT A

As you walk through this exhibit, look for the answers to these questions and solve this puzzle.

ANSWER	QUESTION
_ _ _ <input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _	1. In which constellation is the Stellar Spire located?
_ _ _ _ _ _ _ _ <input style="width: 40px; height: 15px;" type="text"/> _	2. In which Hills of California was our Plesiosaur fossil found?
_ _ <input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _	3. In what state was our large fish fossil found? (<i>Xiphactinus audux</i>)
_ _ _ _ _ <input style="width: 40px; height: 15px;" type="text"/> _	4. In the German town was Max Planck born?
_ _ _ _ _ _ <input style="width: 40px; height: 15px;" type="text"/> _ _	5. In the Periodic Table of the Elements , which element appears as a metallic liquid.?
_ _ _ _ _ <input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _ _ _	6. In the Earth Formation panel (4.6 billion years ago), what dating method was used to determine Earth's age?
<input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _	7. In the Plate Tectonics Through Time panel, what is the name we use for Earth's most recent supercontinent?
<input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _ _ _	8. In The First Spark of Life panel, what is the name of the mucous-like mats of microorganisms that hang in caves in Mexico (they are in one of the pictures)?
_ _ <input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _	9. 600 million years ago, in the oceans, lived a garden of soft-bodied animals, what do we call this ancient garden?
_ _ _ _ _ _ _ _ _ _ <input style="width: 40px; height: 15px;" type="text"/> _ _	10. In the First Swamp Forests mural, what is the name of the dragonfly-like aerial predator with a wingspan of 60 to 75 cm?
_ _ _ _ _ _ _ <input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _	11. Around the corner (at the end of the second floor) is a large poster of The Age of the Dinosaurs – the period that follows the 245 Ma extinction event. What is the name of the large dinosaur in the river chewing on grass?
_ _ <input style="width: 40px; height: 15px;" type="text"/> _ _ _ _ _ _ _	12. In the Thundering Herds panel, there is a fossil <i>Triceratops</i> tooth. In what state was this tooth found?
_ _ _ _ _ _ _ _ _ _ _ _ _ <input style="width: 40px; height: 15px;" type="text"/>	13. In the Dinosaur Forest mural, there is a small voracious predator darting through the underbrush in the lower left corner. What type of dinosaur is this?

Place the boxed letters from above into the 13 spaces below:

_ _ _ _ _ _ _ _ _ _ _ _ _

Rearrange the above letters to find the name of the animal that is assisting you on today's tour.

_ _ _ _ _ _ _ _ _ _ _ _ _

WALK CHALLENGE – SCAVENGER HUNT B

As you walk through this exhibit, look for the answers to these questions and solve this puzzle.

ANSWER	QUESTION
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/>	1. Which creature in the Fossil Gallery is Definitely Not a Dinosaur ?
_ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _	2. In what state was our slab of rock with Dinosaur Footprints found?
_ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _	3. What creature is depicted (3 of them) in the Cretaceous Oceans Mural ?
_ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _	4. In the Big Bang panel, what are the balloons doing in the graphic (like the early universe)?
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _	5. In the Solar System Formation panel (5 billion years ago), what do we call an asymmetric cloud of plasma, ions, and gas that is ejected after a heavy-mass star explodes?
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/>	6. In the Curtain Rises on Life panel, what was the name of the hydrothermal vent site where we see bubbles in the image?
<input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _ _ _ _ _ _	7. In the Plate Tectonics panel, what is the name we give to the thin, rigid outer layer of Earth?
<input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _	8. In The Great Rust Storm panel, what is the metal that combined with oxygen in the Earth oceans to form the banded rock formations?
_ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _	9. In the Soft Bodies, Hard Bodies panel, body segmentation first appears in arthropods and what other type of animal?
_ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _ _	10. In the First Swamp Forests mural, what is the name of the armored millipede-like organism?
_ _ _ _ _ _ _ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _	11. At the end of the second floor, 245 million years ago, panels describe the biggest mass extinction in Earth's history. What is the name of the large volcanic eruption that likely led to this extinction?
_ _ _ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _ _ _ _ _ _	12. In the Up and At 'Em panel, we learn that the first dinosaurs to evolve were bipedal – they walked upright on two legs. What is the name of one of these early dinosaur species?
_ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _	13. In the Dinosaur Forest mural, there are a number of plants, including redwoods, cypress, ferns, horsetails, and what other tree type?
_ _ _ <input style="width: 30px; height: 15px;" type="text"/> _ _ _ _ _ _ _ _ _	14. In the San Francisco Estuary panel, there is special section on the Gold Fields Legacy. What did earlier gold miners leave behind for us to deal with today?

Place the boxed letters from above into the spaces below:

_ _

Rearrange the above letters to find the name of one of the scientists whose work has been instrumental in our understanding of the Story of Time and Life.

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WALK CHALLENGE – SCAVENGER HUNT C

As you walk through this exhibit, look for the answers to these questions and solve this puzzle.

ANSWER	QUESTION
_____ .7 BILLION YEARS OLD	1. How old is our Universe (how long ago did the Big Bang happen)?
_____ .0 BILLION YEARS OLD	2. How old is our Solar System (how long ago did a supernova remnant begin condensing to form a protoSun)?
_____ .6 BILLION YEARS OLD	3. How old is planet Earth (how long ago did meteorites begin colliding and coalescing)?
_____ .4 BILLION YEARS OLD	4. For how many billions of years have oceans covered parts of Earth's surface?
_____ .8 BILLION YEARS OLD	5. When did life - simple, single-celled bacteria - first evolve on Earth?
_____ .5 BILLION YEARS OLD	6. When did early life first begin to photosynthesize (capture sunlight for energy, producing oxygen as a byproduct)?
_____ .7 BILLION YEARS OLD	7. When did single-celled life finally get a nucleus and become a eukaryote?
_____ 00 MILLION YEARS OLD	8. When did animals first develop hard parts? (The Hard Facts)
_____ 20 MILLION YEARS OLD	9. When did a backbone (early vertebrates) first evolve?
_____ 45 MILLION YEARS OLD	10. When did the largest mass extinction even occur? The one that ended the Permian and opened space for Dinosaurs? (Here Today, Gone Tomorrow)
_____ 40 MILLION YEARS OLD	11. When did pterosaurs, the first flying vertebrates, evolve? (Flying Fingers)
_____ 25 MILLION YEARS OLD	12. When did Pangaea, the most recent supercontinent, form?
_____ 45 MILLION YEARS OLD	13. When did mammals first appear? (If the Shrew Fits?)
_____ 5 MILLION YEARS OLD	14. When did the Age of Dinosaurs end (End of the Line)?
_____ 3 MILLION YEARS OLD	15. When did primates first evolve? (Monkey Puzzle)
_____ 5 MILLION YEARS OLD	16. When did the San Andreas Fault first form? (A Crack Spreads Across California)
_____ .6 MILLION YEARS OLD	17. When did the period of repeating ice ages begin?
_____ 00 THOUSAND YEARS OLD	18. When did San Francisco Bay begin forming?

_____ **SUM OF ABOVE ENTRIES** Total up your numbers (just the numbers that you had to fill in).

This SUM represents the time, in MILLIONS OF YEARS, when the dinosaur species, *Tyrannosaurus Rex*, first appeared on our planet.