

Science for Seniors offers a wide variety of engaging topics:

- 1) Ocean life - What is the largest creature in the sea, why is the ocean salty? Hands on items: preserved shark, seahorses, fossils
- 2) Volcanoes, Earthquakes - Why do they happen, how can we predict them? Hands on samples of lava from around the world
- 3) Weather. What causes weather, what country has the most tornados? Hands on demonstration of tornado model.
- 4) Winter Weather. Why are no two snowflakes alike? Hands on items early weather forecast models.
- 5) Birds. How do birds fly, why do they sing? Hands on feathers and a claw.
- 6) Butterflies. How long have they lived on Earth, how do they migrate? Hands on preserved butterflies including world's largest moth.
- 7) Rainforest. How much of the Earth's surface is rainforest, who lives there? Demonstration of how quicksand grabs hold.
- 8) Insects. How many in the world, where do they go in cold weather? Hands on preserved insects.
- 9) How did mammals rise on the planet; how do they differ from other species? Hands on animal pelts.
- 10) Time and Maps. Who created the first clock, the calendar? Hands on water clock and model of 1700 pocket sundial.
- 11) Sharks. How long have they lived on the planet, why they are vital to the Earth? Hands on shark jaw and great white tooth fossil.
- 12) Earth Day. What causes pollution and what are some solutions everyone can do to help save the planet? Hands on reusable straws and plastic alternatives
- 13) 20th Century Inventors - Who invented the tv, cell phone, cd? Hands on models.
- 14) Inventors - not who you think. Who invented the bifocal, lightbulb, toilet paper? Hands on models.
- 15) Food Fun - Where did potatoes originate, what country invented marshmallows? Hands on demo of marshmallows.
- 16) Halloween Holiday Fun. What is the origin of witches, fear of black

cats? Hands on demonstrate the Blob and Thing

17) Space. What do we know of the planets, the universe? Hands on demonstrate how moon craters formed.

18) Mars. Why are we going to the red planet, what will you eat? hands on Martian meteorite

19) I Want to be an Astronaut. What are the qualifications, how will you live? Hands on real asteroid meteorite.

20) Our sun and moon. What is an eclipse, what are Northern Lights? Hands on demonstration of the size of the sun and moon vs planets.

21) Glass. How was it invented, who invented the telescope? Hands on how 3D glasses work

22) Swamps, Marshes and Wetlands. How did they form, what creatures live there? Hands on real turtle shell and alligator head

23) Caves. How did they form, what creatures live there? Hands on snail shell.

24) What's in your jewelry box minerals and rocks. How do they form and where are they found? Hands on silver vein and other samples

25) Science mysteries solved and unsolved- What are Black holes, how did scientists discover the origin of craters on the moon? Hands on dinosaur bone fossil.

26) Energy. How does solar energy work, water power? Hands on waterwheel demonstration.

27) Who invented the items we use every day at home? Hands on models of crank radio.

28) What is the story of soap? Hands on salt scrubs, and soap nuts.

29) What is the difference between the North and South Pole? Hands on demonstration of how polar bears stay warm.

30) Flowers - what is the difference between a flower and a weed? Hands on demonstration why frost kills flowers.

31) Fish - what is a fish, how many kinds on the planet? Hands on skeleton of a Crucifix fish.

32) Global warming, what is happening and why? Hands on demonstration of how rising water.

33) Grand Canyon its formation and creatures. Hands on fossils and rock layering example.

- 34) How Alaska form and what creatures that live there? Hands on eagle claw replica.
- 35) Magnets. How were they discovered, how can they be used in space travel? A demonstration of Earth's magnetic field.
- 36) Flight. How do airplanes fly, what does it take to make a rocket leave Earth's gravity? Hands on models of spaceships.
- 37) Rivers and Ponds. How did they form, what lives in the water? Hands on turtle shell.
- 38) Deserts. How did they form, where are they expanding? Hands on old man cactus
- 39) Dinosaurs and Earth Extinctions. What happened to extinct creatures, are we facing extinction? Hands on dinosaur bone and dinosaur poop.
- 40) What is the difference between music and noise? Hands on demonstration of the vibration caused by musical notes.
- 41) Strongman Science. How can science be used to tear a phone book in half, how does a lock work? Hands on demonstration of locks.
- 41) Skeletons. How many bones in the human body, what is the smallest bone? Hands on model of skeleton and mammal skeletons.
- 42) Sports Science. How do ice skaters balance? Hands on ball demonstrations.
- 43) Safety Science. Who invented the fire safety equipment, parachute? Hands on demonstration of a model parachute.
- 44) City Science. Who invented the match, the skyscraper? Hands on models.
- 45) Black History Month. Lonnie Johnson and other inventors. Hands on models.
- 46) Women's History Month. Who invented the coffee filter, White Out? Hands on models.
- 47) Bees. Why are they dying and what can be done to help them survive? Hands on models.
- 48) Earth Changes. Why do the continents move and how did glaciers change the surface? Hands on crystal samples.
- 49) Kitchen Science. How does yeast work, how is ice cream made? Hands on demonstrations.
- 50) Sensory Science. What is kinetic sand, how do our sense send messages to the brain? Hands on demonstration of kinetic sand.