

Last Minute, Last Chance Science Projects

- Topic Number One--1. Make 6 groups of 25 pinto beans. (Radish or other seeds OK also)
2. Group 1 Control --- do nothing to these beans.
 - Group 2 Tape in bag on side of microwave (record time microwave is used over 2 days).
 - Group 3 Tape to back of TV and record how long the TV is on for 2 days.
 - Group 4 Soak sponge in RAID or other bug killer place in sealed jar with beans for 2 days.
 - Group 5 Soak sponge in household cleaner & place in sealed jar with beans for 2 days.
 - Group 6 Treat this group to any abuse you want for 2 days (UV light, etc.)
3. After 2 days, keeping groups separate, soak beans in water for hour, drain and cover with moist paper towel. Repeat this daily and record daily the number of beans which germinate. Bring in project with germinated beans and pictures.

- Topic Number Two--1. Record the vertical leap of at least 15 different people (record age and sex) without any warm-up. (use tape or chalk on wall to measure vertical leap)
2. Have the subjects stretch for 5 minutes (ask coach/PE teacher for best ones) and repeat and record new leap.
 3. Now have subjects jog for 3-5 minutes and then stretch for 5 minutes. Repeat test for vertical leap.

- Topic Number Three--1. Go to a beach with a rocky shore at low tide. Shoot a close-up picture of each different organism you see (count the number of each type of organism in a 4 meter square area at low tide---record the tide level). 2. 3 hours later recount the numbers of critters in a 4 meter square plot at the new water line. 3. 3 hours later do a final count at the high tide water level for the day. 4. Identify all the organisms you have pictures of and describe their biology.

- Topic Number Four--1. Compare a north facing hill and a south facing hill at the same altitude. 2. Compare the 2 with respect to: a) hours of daylight b) air temperature c) soil temperature d) amount of moisture in soil e) biomass of plants in 4 meter square area f) types of plants present

- Topic Number Five--1. Encase a thermometer in the middle of a rectangle of lard (animal fat is a great insulator). Record starting temperature of the lard. Wrap in plastic wrap. 2. Drop into boiling water. After 2 minutes remove from water and record temperature within the lard. 3. Repeat this with 5 different thickness of lard (always recording thickness of lard and starting & final temperatures). 4. Now compare the insulating ability of lard to another substance (such as insulation or styrofoam).

- Topic Number Six--1. Record the resting pulse, reaction rate, respirations and blood pressure of 3-5 individuals. 2. Have each of these individuals drink a 12 ounce pepsi on an empty stomach. 3. 20 minutes later record the vitals as in #1. 4. 40 minutes after they have drunk the pepsi re-record the same data. 5. Repeat same measurements 60 minutes post-drink. 2. Repeat same steps using Diet-Pepsi (wait a day or so for second set of trials) 3. Repeat same steps using Diet-Pepsi Free (no caffeine or sugar) 4. If possible repeat using Pepsi Free (which has the sugar).

**Do A Project or Die in The Grade Book
Start Now Don't Wait Another Day!!!**

Still More Incredible Fun Science Project Ideas

Topic Number Seven----1. Pour exactly 25 mls. of hydrogen peroxide into 1 gallon freezer bag and seal 2. Place out in the sun for 10 minutes 3. Expel any air from the bag 4. Place a 2 cm. cube of fresh liver in bag and seal 5. Measure the amount of gas given off. Repeat steps 1-5 using a freezer bag coated on the outside with spf 4 sunscreen, then another trial with spf 16, and finally a trial with spf 32 sunscreen.

Topic Number Eight-----1. Take blood pressure, respirations, body temperature, and reaction time hourly on 5 subjects for a 24 hour period. 2. Hourly give them 10 long division problems hundreds into thousands with a 3 minute time limit (record number correct)

Topic Number Nine-----1. Purchase 2 boxes of flat wooden toothpicks and divide them up into four even piles. 2. From each pile of toothpicks construct a bridge large enough to span a 10 cm gap (use a different style of bridge for each pile of toothpicks) 3. Suspend your bridge between 2 stacks of books 4. Hand an empty one gallon milk carton from the middle of the bridge and slowly add water to carton until bridge breaks record the volume of water at this point (1 milliliter of water equals one gram of mass).

RESEARCH THE FOLLOWING SUBJECTS FOR YOUR TOPIC-----

Topic 1: Mutations, radiation, mutagens, carcinogens, birth defects

Topic 2: Athletic performance enhancement, stretching, warm-ups, kinesology, flexibility

Topic 3: Vertical zonation, marine biomes, niches, seashores, tidepools

Topic 4: Alterns, ecosystems, Chapparel, ecology, niches, biomes

Topic 5: Insulation, animals of the arctic, fur, adipose

Topic 6: Caffeine, effect of sugar, diuretics, stimulants,

Topic 7: Enzymes, sunscreens, ultraviolet light/radiation, skin cancer

Topic 8: Biorhythms, circadian rhythms, vital signs, natural cycles

Topic 9: Engineering, bridges, stress on spans, types of bridges

THESE TOPICS ARE SMALL SO MUST WORK ALONE ON THE PROJECT.

A MAXIMUM OF 4 PEOPLE IN THE SAME CLASS MAY DO THE SAME PROJECT (WE WILL USE A LOTTERY SYSTEM FOR WHO GETS FIRST PICK)

REMEMBER TO TAKE LOTS OF PICTURES TO PROVE THAT YOU REALLY DID THE WORK.