SUCCESS ON TAKS
- Knowledge of all TEKS science skills
- Grades 2-4 must teach science TEKS
- Knowledge of science vocabulary
- Knowledge of science facts

WHAT TO EXPECT ON TAKS
- All skills tested are directly from TEKS
- Some skills from earlier grades could be tested even though they were not reviewed in 5th grade
- Every problem is not “higher-order/rigorous”
- Some items will require use of paper centimeter ruler provided
- There will be lots of graphics
- Some problems are simply math problems
- Students need over 70% to pass

The TAKS test is divided into 4 areas: The nature of science
  Life science
  Physical science
  Earth science

OVERALL STRATEGIES:
Organize science materials according to the 4 areas tested
Experiments help understanding, but are NOT necessary to succeed on test:

*Creating pictures, diagrams and graphs as well as analyzing written data and using science vocabulary are much more effective*
SCIENTIFIC PROCESSES IN KINDERGARTEN
  • Make observations
  • Ask a question
  • Make a hypothesis
  • Plan and do a Test
  • Record and Analyze
  • Draw conclusions

  • Science safety
  • Science equipment (be able to recognize these)
    calculator
    microscope
    ruler
    thermometer
    compass
    meter stick
    timing device
    magnets
    collecting nets
    safety goggles

LIFE SCIENCE IN KINDERGARTEN:
  • Living vs. nonliving. Living things are called organisms
  • Parts of a plant: seed, roots, stem, leaves, flower, fruit
  • Life cycles:
    Butterfly - egg, caterpillar (larva) pupa (chrysalis) adult
    Ladybug – egg, larva, adult
  • Living things grow and change

PHYSICAL SCIENCE IN KINDERGARTEN (TAKS has many matter questions)
  • Matter
  • Properties of matter: color, shape, smell, taste, size, (function, melting point, boiling
    point, magnetism, conductor of electricity)
  • States of matter: solid, liquid, gas
  • Light: form of energy
    travels in waves and in all directions from source
    can be reflected and refracted
  • Sound: produced by vibrations

EARTH SCIENCE IN KINDERGARTEN (most difficult area of science for
students!!!!)
  • Deals with earth, sun, moon and planets
  • Physical features of earth: landforms
  • Comparing the earth and the moon
  • Changes over time: seasons and moon cycle/sun cycle, day/night
  • The earth’s resources: renewable, nonrenewable, inexhaustible
  • Understand the role of fossils
  • Properties of the sun: energy source for earth
  • Weather
  • Stars
  • Rocks (fossils, sedimentary, igneous, metamorphic), dirt