

## Grade 5 Annually-Assessed Benchmarks for the Science FCAT

The following lists the fifteen Annually-Assessed Benchmarks that will be tested each year of the Grade 5 Science FCAT. It should be noted that within specific benchmarks other benchmarks are embedded and could be tested annually.

- ✚ SC.A.1.2.1- Determines that the properties of materials (e.g., density and volume) can be compared and measured (e.g., using rulers, balances, and thermometers).
- ✚ SC.A.1.2.4- Knows that different materials are made by physically combining substances and that different objects can be made by combining different materials.
- ✚ SC.B.1.2.1- Knows how to trace the flow of energy in a system (e.g., as in an ecosystem).
- ✚ SC.B.1.2.2- Recognizes various forms of energy (e.g., heat, light, and electricity).
- ✚ SC.C.2.2.4- Knows that the motion of an object is determined by the overall effect of all of the forces acting on the object. **(Also Assesses SC.C.2.2.2)**
- ✚ SC.D.1.2.4- Knows that the surface of the Earth is in a continuous state of change as waves, weather, and shifts of the land constantly change and produce many new features. **(Also Assesses SC.D.1.2.1; SC.D.1.2.2; SC.D.1.2.5)**
- ✚ SC.E.1.2.1-Knows that the tilt of the Earth on its own axis as it rotates and revolves around the sun causes changes in season, length of day, and energy available.
- ✚ SC.F.1.2.3-Knows that living things are different but share similar structures.

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- ✚ SC.G.1.2.2-Knows that living things compete in a climatic region with other living things and that structural adaptations make them fit for an environment.
- ✚ SC.G.1.2.3-Knows that green plants use carbon dioxide, water, and sunlight energy to turn minerals and nutrients into food for growth, maintenance, and reproduction.
- ✚ SC.G.2.2.1-Knows that all living things must compete for Earth's limited resources; organisms best adapted to compete for the available resources will be successful and pass their adaptations (traits) to their offspring. **(Also Assesses SC.B.2.2.2; SC.B.2.2.3)**
- ✚ SC.H.1.2.1-Knows that it is important to keep accurate records and descriptions to provide information and clues on causes of discrepancies in repeated experiments.
- ✚ SC.H.1.2.2-Knows that a successful method to explore the natural world is to observe and record, and then analyze and communicate the results. **(Also Assesses SC.H.1.2.4; SC.H.3.2.2)**
- ✚ SC.H.3.2.1-Understands that people, alone or in groups, invent new tools to solve problems and do work that affects aspects of life outside of science. **(Also Assesses SC.H.3.2.3)**
- ✚ SC.H.3.2.4-Knows that through the use of science processes and knowledge, people can solve problems, make decisions, and form new ideas.