### 7th Grade
South Carolina Programs

#### MONTHLY PROGRAM PAIRINGS

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#### PLANETARIUM PROGRAMS

**GROSSOLOGY AND YOU**  
Months offered: OCTOBER, NOVEMBER, JANUARY & FEBRUARY

Join Noreen Neuron, host of the “Personal Universe” game show, as she leads us through a competition to decide which body system is the best and brightest. Will it be Scabby (the immune system), Boogie (the respiratory system) or Flatus (the digestive system)? Standards: 7.L.3B.1, 7.L.3B.2

#### DISCOVERY PROGRAMS

**ARE YOU DENSE?**  
Months offered: JANUARY & FEBRUARY

Students explore density using Earth materials including minerals, water, sand, and iron filings. They will take measurements, collect data, plot coordinates, and interpret graphs as they analyze the mathematical relationship between mass and volume. Standards: 7.P.2B.1, 7.P.2B.2

**CENTER OF THE ATOM**  
Months offered: OCTOBER & NOVEMBER

Students explore atomic structure using a series of hands-on activities which concludes with the discovery of the uses of an atom they create using the Interactive Nucleus display and the Living Periodic Table. Standards: 7.P.2A.1, 7.P.2A.2

**CHANGES MATTER**  
Months offered: JANUARY & FEBRUARY

Students explore physical and chemical properties of matter. They compare physical and chemical changes and experience reactivity through experiments and an “igniting” demonstration! Standards: 7.P.2B.1, 7.P.2B.4

**MEET THE ELEMENTS**  
Months offered: OCTOBER & NOVEMBER

Students “meet the elements” in a fun music video; then work together to classify materials as elements, compounds and mixtures. They will build atomic models and discover why compounds are either ionic or covalent. Standards: 7.P.2A.3, 7.P.2A.4

**RADIOECOLOGY**  
Month offered: OCTOBER

Learn what happens when radionuclides and ecosystems meet with the Savannah River Ecology Laboratory scientists. The SREL has the only radioecology undergraduate education program in the world. Challenge the myths and learn the facts about radioecology from research conducted at the SRS in Aiken, South Carolina, the Chernobyl Exclusion Zone in Russia, and the Fukushima Daiichi accident in Japan. Standards: 7.EC.5A, 7.EC.5B
RAVENOUS RAPTORS  Months offered: JANUARY & FEBRUARY
What is a raptor? How is an osprey’s talon different from an owl’s? Students will take an up-close look at birds of prey and examine their role in the food chain. Using field guides and wing/talon specimens we will compare and contrast physical characteristics, adaptations and habitats of these predators. Standards: 7.E.5A.1, 7.E.5B.1, 7.E.5B.2

ECOHIKE IN HITCHCOCK WOODS  Months offered: SEPTEMBER, APRIL & MAY
This is a two-hour, two-mile guided hike through Hitchcock Woods. Native plants will be identified, evidence of animal life will be examined, and forest communities will be compared. Standards: 7.E.5A.1, 7.E.5B.1, 7.E.5B.