



Grade 11 Tier 1 - *Emerging*

An eleventh-grade Tier 1 student performing at the **Emerging** Level demonstrates a growing academic awareness of some of the basic skills and concepts outlined by the Alternate Eligible Content in at least one of the Pennsylvania Science Reporting Categories.

Students performing at this level demonstrate these abilities by

- ✓ identifying everyday technology
- ✓ associating specific plants and animals with their environments
- ✓ recognizing that animals in different environments look different

Grade 11 Tier 1 - *Novice*

An eleventh-grade Tier 1 student performing at the **Novice** Level demonstrates a growing academic awareness of the basic skills and concepts outlined by the Alternate Eligible Content in at least two of the Pennsylvania Science Reporting Categories.

In addition to the skills demonstrated by students performing at the *Emerging* Level, students performing at this level demonstrate these abilities by

- ✓ recognizing the similarities and differences in earth's climates
- ✓ recognizing the results of specific natural disasters on the environment
- ✓ using one data point or characteristic to predict weather events
- ✓ comparing the function of structures of different animals

Grade 11 Tier 1 - *Proficient*

An eleventh-grade Tier 1 student performing at the **Proficient** Level solves simple tasks and demonstrates progressing academic awareness of most of the basic skills, concepts and vocabulary outlined by the Alternate Eligible Content in at least three of the Pennsylvania Science Reporting Categories.

In addition to the skills demonstrated by students performing at the *Novice* Level, students performing at this level demonstrate these abilities by

- ✓ identifying causes and predicting results of changes in stable systems
- ✓ using observations to draw conclusions about recurring patterns
- ✓ identifying the impact that using resources has on their environment

Grade 11 Tier 1 - *Advanced*

An eleventh-grade Tier 1 student performing at the **Advanced** Level solves routine tasks and demonstrates consistent academic awareness of the basic as well as some complex skills, concepts and vocabulary outlined by the Alternate Eligible Content across all four Pennsylvania Science Reporting Categories.

In addition to the skills demonstrated by students performing at the *Novice* and *Proficient* Levels, students performing at this level demonstrate these abilities by

- ✓ recognizing experimental designs that answer specific questions
- ✓ making simple predictions and drawing conclusions based on basic graphs, tables, charts, and models
- ✓ determining the outcome of common situations by applying knowledge of the forces involved
- ✓ determining the relative speed, distance, or elapsed time based on two or more observations
- ✓ recognizing the interactions between the living and non-living parts of an ecosystem