**Teacher Learning Report – Science**

**Description:** This report provides data for each TEKS Cluster with aligned Student Expectations (SEs) and subclusters. Teacher Learning Reports help identify specific parts of the curriculum where students (and/or teachers) may need support and enhances data analysis for instructional planning.

**TEKS Cluster:**
- Checkpoint data from Leadership Report Card
- Includes aggregate data for all aligned Student Expectations
- Primary and connected Knowledge & Skills noted

**Tools to Know (Process Standards) Analysis:**
- SEs included in Tools to Know listed on Process Standards Teacher Learning Report
- Tools to Know data shown on Leadership Report Card is duplicated across all Teacher Learning Reports

**Checkpoints:**
- One or more assessments may be selected for each Checkpoint

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### Teacher Learning Report: Grade 8 Science

#### Properties of Atoms
8.5 Matter and energy. The student knows that matter is composed of atoms and has chemical and physical properties.

#### Process (Tools to Know)
- 8.2(A) plan and implement comparative and descriptive investigations
- 8.2(B) design and implement experimental investigations
- 8.4(A) collect, record, and analyze information using tools

#### Content
**Structure of Atoms**
- 8.5(A) describe the structure of atoms, including the masses, electrical charges, and locations, of protons and neutrons in the nucleus and electrons in the electron cloud
- 8.5(B) identify that protons determine an element's identity and valence electrons determine its chemical properties, including reactivity

**Periodic Table**
- 8.5(C) interpret the arrangement of the Periodic Table, including groups and periods, to explain how properties are used to classify elements
- 6.6(A)* compare metals, nonmetals, and metalloids using physical properties such as luster, conductivity, or malleability

#### Process (Ways to Show)
- 8.2(E) analyze and formulate explanations, communicate conclusions, and predict trends
- 8.3(B) use models to represent the natural world

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**Ways to Show (Process Standards) Analysis:**
- SEs included in Ways to Show listed on Process Standards Teacher Learning Report
- Ways to Show data shown on Leadership Report Card is duplicated across all Teacher Learning Reports

**Content:**
- Subclusters (gray) – mini-bundles by concept/topic; data includes aggregate of associated SEs.
- Student Expectations reflect the streamlined versions of Science TEKS