**Lesson**: PowerPoint Presentation for The Formation of AMD  
**Content area:** Science/Ecology

**Grade:** 8-12 **Standards:**

* PA Science and Technology Standards  
  [3.4.12.B1](http://www.pdesas.org/standard/StandardsBrowser/25389/),
* PA Listening/Speaking Standards  
  1.6.9A, 1.6.10.A, 1.6.11A, 1.6.12.A

**Resources:**

* PDF PowerPoint *The Formation of AMD*

**Materials:**

* Computer and projector/Smartboard

**Objectives:**

* TSWBT define the cause of Abandoned Mine Drainage
* TSWBT identify the law which prevents current mining from causing discharges
* TSWBT identify the chemical characteristics of AMD

**Vocabulary:**

* SMCRA
* Pyrite
* Dissolved
* Precipitate
* Abandoned Mine Drainage/Lands
* Acidity**/** Alkalinity
* pH

**Set Up:**

1. Set up computer and projector in order to present the PowerPoint presentation of *The Formation of AMD*

**Procedure:**

1. Guide students through the PowerPoint presentation.
2. Refer to the PowerPoint notes for further information on the presentation

**Closure:**

1. Refer to lessons plans for further exploration of the concepts discussed in the PowerPoint