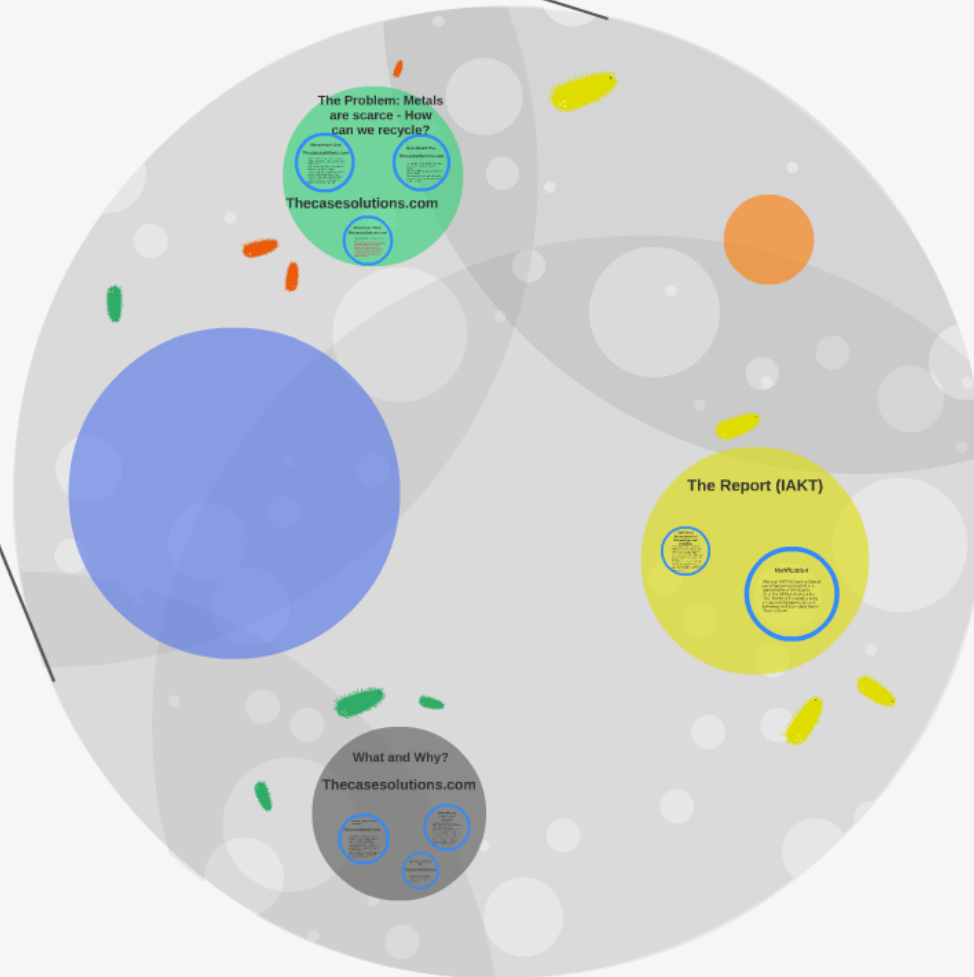




Scrap It

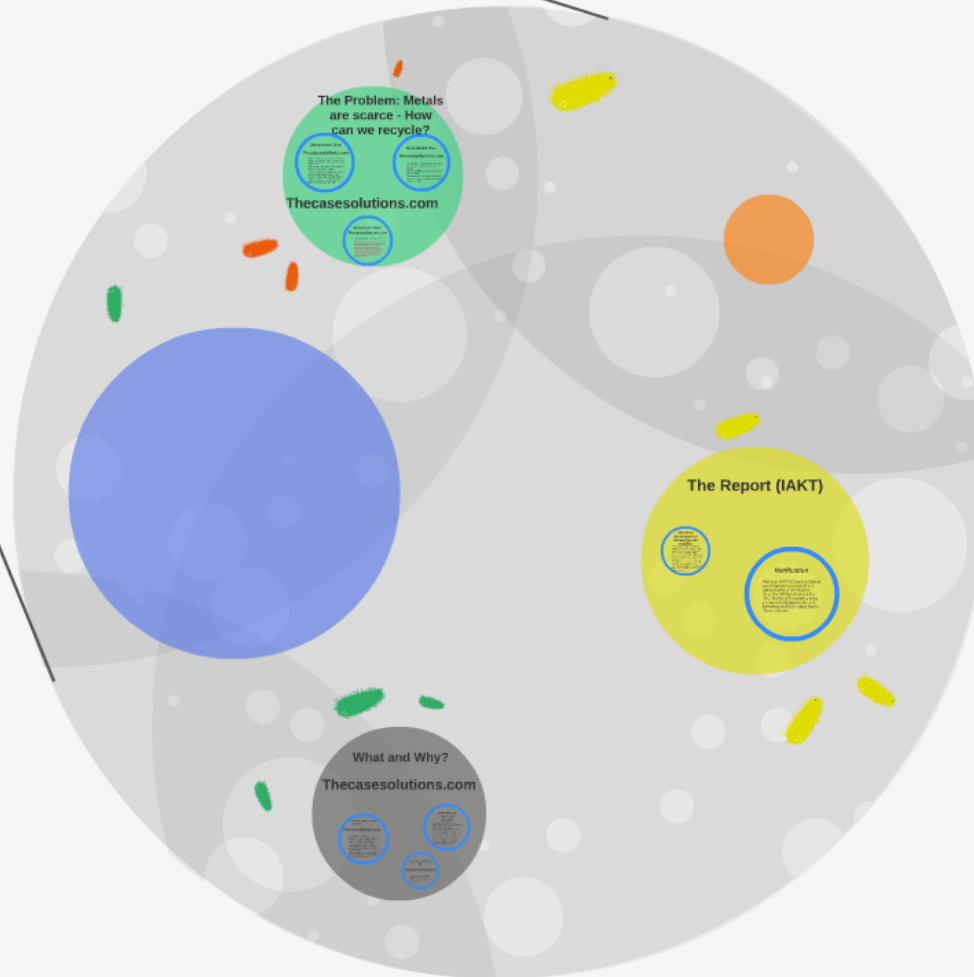
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Scrap It

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The Problem: Metals are scarce - How can we recycle?

Benchmark One

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Most metals are in an ever shorting supply and some have become very expensive.

How do experts find the identity of a metals or alloys of metals?

How do chemists use the extensive and intensive properties of the metals to accurately identify them?

How do chemist use this data to identify unknown materials?

Benchmark Two

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Your group will receive four samples of unknown metals or alloys of metals.

What tests will you use to accurately identify them?

Once identified, you will find out the number of moles and atoms present in the samples?

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Benchmark Three

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Your group will run an inquiry that will:

Precisely and accurately run tests that will highlight the metals/ alloys intensive properties.

Uses the results to compare to existing research and to make a determination of the metal or alloys identity.

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What and Why?

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TESTING: Why is accuracy important?

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Because substances follow the modeling rules and they will show certain patterns of properties. Accurate measurements and observations of their properties will assure that your group is following these patterns. Develop testing procedures that will help your group find the possible identity of each sample.

How will you report your results?

Your group must organize your observations and measurement data into scientific data tables. The tables will be nested into an IAKT reporting your reasoning for the tests you ran, your analysis and interpretation of the data collected, a claim as to what elements your group believes the unknown to be, and any possible counterclaims as to the identity of the samples.

See what the Pro's do

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Field trip or Skype experts from OmniSource to see how local professionals sort scrap metals and alloys of metals.

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