Activity B:
Unknown substances

#### Get the Gizmo ready:

- · Click Reset.
- Under Select a sample, choose Unknown.
- Check that the Standard mystery set is displayed. (If not, click Refresh or Reload on your browser.)



#### Question: How can you identify unknown substances?

Identify: Test tubes 1-5 are all contain single substances. Run the five tests on these powders, and identify
the substance in each tube.

Sample	Appearance	Litmus	Vinegar	Biuret	lodine	Substance
1	Fine	Neutral	No	No	Yes	Cornstarch
2	Fine	Base	Yes	No	No	Baking Soda
3	Coarse	Neutral	No	No	No	Salt
4	Fine	Neutral	Yes	No	Yes	Baking powder
5	Coarse	Acid	No	Yes	No	Gelatin

Identify: Test tubes 6-10 all contain mixtures of two substances. Run the five tests on these powders, and identify the TWO substances in each tube.

Sample	Appearance	Litmus	Vinegar	Biuret	lodine	Substances
6	Coarse/fine	Acid	No	Yes/no	Yes	Gelatin and cornstarch
7	Coarse/fine	Neutral	Yes	Yes/no	No	Salt and baking soda
8	Coarse/fine	Neutral	Yes	No	Yes	Salt and baking powder
9	Fine	Base	Yes	No	Yes	Baking soda and comstarch
10	Coarse/fine	Acid	Yes	Yes/no	Yes	Gelatin and baking powder

Analyze: In the two-substance mixtures you have investigated so far, are there any situations where there
is more than one correct answer? Explain.

Number nine could be baking soda mixed with either baking powder or cornstarch. They are both fine and have starch present and no protein.

# **Explore Learning Mystery Powder Analysis Gizmo Answers**

Elementary Science Study (Education Development Center)

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Teacher's Guide for Mystery Powders Education Development Center, Elementary Science Study (Education Development Center), 1967 Teacher's Guide for Mystery Powders Elementary Science Study (Education Development Center), 197?

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