Pesticides 101-Pesticide Formulations Resource Worksheet

Pesticide Formulations Demonstration with Common Household Products (VIDEO)
Narrated by Pat Hipkins of Virginia Tech, this demonstration on pesticide formulations and packaging uses common household products that share similar properties of the pesticides products to create a replicable demonstration to teach learners the significance of understanding the properties of different pesticide formulations for safe and effective selection, mixing, and application.
Available at: https://www.youtube.com/watch?v=k2-9utkVq4k

Formulation Demonstration Materials: Terms to Know (Worksheet), Properties (Worksheet), Pros and Cons (worksheet), Substitute (worksheet), and Formulations and Packaging Exercise (worksheet)
Developed by Pat Hipkins of the Virginia Teach Pesticide Program, these resources provided information and supplements for teaching pesticide formulations.
Available at: http://extension.psu.edu/pests/pesticide-education/educators/ag-and-science-teachers/classroom-demonstrations-and-lessons/formulation-demonstration

Pesticide Formulation (PowerPoint), Formulation Matching Exercise (worksheet), and Formulation Matching Answer Key
Learners can learn about the characteristics of pesticide formulations using common household products. Give your learners the Formulation Matching Exercise sheet and then either use the Pesticide Formulations PowerPoint or gather the corresponding household items to create a hands-on activity.
Available at: http://extension.psu.edu/pests/pesticide-education/educators/ag-and-science-teachers/classroom-demonstrations-and-lessons/formulation-demonstration

Overlooked Steps to Getting the Correct Rate of Pesticides (Power Point)
This presentation discusses the importance of understanding the difference between a liquid ounce versus a dry ounce, which measuring devices should be used for which formulations, and other factors that affect the accuracy of pesticide measurements. The presentation can be seen in booklet fashion at http://issuu.com/pested.psu/docs/overlooked_steps_to_getting_the_cor_ea77b36845c85c/1 or can be downloaded from our Pesticide Safety and Pest Management Library at http://library.pested.psu.edu/v/Presentations/2013-2014/

Measuring Pesticides: Overlooked Steps to Getting the Correct Rate (Publication)
Produced by Purdue University, this publication discusses keys to effective application, how inaccurate pesticide measurements can affect performance, and more.
Available at: https://www.extension.purdue.edu/extmedia/PPP/PPP-96.pdf

Pesticide Formulations: Their Role in Pesticide Measurements (Video)
Narrated by Pat Hipkins of Virginia Tech, this video explains a demonstration on how knowledge of pesticide formulations is essential for proper measuring of pesticide products.
Available at: https://www.youtube.com/watch?v=14EuNeRn4uw
**Pesticide Formulations: Tank Mixing & Compatibility Demonstration (Video)**

Narrated by Pat Hipkins of Virginia Tech, this demonstration on tank mixing and compatibility of pesticide products, using common household products with similar properties, explains the effects of what could happen to a mixture when the pesticide materials are not compatible.

Available at: [https://www.youtube.com/watch?v=YEmUwE4A5Ag](https://www.youtube.com/watch?v=YEmUwE4A5Ag)

**Incompatibility Activities (Worksheet), Incompatibility Activity Cards, and Incompatibility Activity Cards Key**

Developed by Pat Hipkins, these materials can serve as educational supplements when facilitating incompatibility activities. The Incompatibility Activities worksheet contains an overview, label exercise, and incompatibility activities. The Activity Cards list the materials and steps for incompatibility demonstrations, including six different tests to try and follow-up questions. The answer key includes results for the tests and responses for the questions.


**Spray Adjuvants 101**

The presentation can be seen in booklet fashion at [http://issuu.com/pested.psu/docs/surfactants_final_01162013](http://issuu.com/pested.psu/docs/surfactants_final_01162013) or can be downloaded from our Pesticide Safety and Pest Management Library at [http://library.pested.psu.edu/v/Presentations/2013-2014/](http://library.pested.psu.edu/v/Presentations/2013-2014/)

**Spray Adjuvant Fact Sheet**

This publication explains the different types and uses of adjuvants. Available at: [http://pubs.cas.psu.edu/freepubs/pdfs/uo221.pdf](http://pubs.cas.psu.edu/freepubs/pdfs/uo221.pdf)