**Spring 2016**

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| **Project: 3M Spray Mount** | |
| Metals | Identify and quantify major element in metal container by two methods  Quantify trace elements in metal container |
| FT-IR | Identify plastic used in the cap  Identify the plastic in the plastic packaging  Identify the polymer used in the glue |
| Calories | Determine the number of calories per gram of spray |
| Separations | Confirm the presence of three ingredients listed on the package |
| Electron microscopy | Determine the thickness of the metal in the tin |
| CYOA | Pose and answer your own question |

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| **Project: Testors Acrylic Paint** | |
| Metals | Identify and quantify major element in metal tin by two methods  Quantify trace elements in metal cap  Quantify major and trace metals in the paint |
| FT-IR | Identify plastic used in the packaging |
| Colors | Identify a colorant in the paint |
| Separations | Confirm the presence of and identify the mixture of glycol ethers |
| Electron microscopy | Determine the thickness of the metal in the tin |
| CYOA | Pose and answer your own question |

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| **Project: DAP Plastic Wood** | |
| Metals | Identify and quantify major element in metal tin by two methods  Quantify trace elements in metal tin |
| FT-IR | Identify polymer used in the product |
| Colors OR Calories | Identify a colorant in the product OR  Determine the number of calories per gram product |
| Separations | Confirm the presence of at least two volatiles listed on the packaging |
| Electron microscopy | Examine metals in paint OR pose your own question  Determine the thickness of the paint and metal on the tin |
| CYOA | Pose and answer your own question |