Physics video of the week, number 4 -

## Making fuming nitric acid https://youtu.be/QmCdrDLyNXQ

	1   11 ue of laise: Circle the correct answer and justify in it's laise
$\bigcirc$ /F $\boxed{1}$	Fuming nitric acid can light common lab gloves on fire.  True.
$T/\widehat{\mathbb{F}}$ 2	To make fuming nitric acid, the speaker uses hydrochloric acid. False – The speaker uses $sulfuric$ acid.
T/F3	To speed up the reaction, the speaker cools down the reactants.  False – The reaction is sped up by <i>heating</i> the reactants, according to the Arrhenius equation.
$\mathrm{T}/\mathrm{F}$ 4	The orange color comes from nitrogen dioxide gas. $\label{eq:color_sol} \text{True} - \text{Excess heat decomposes the nitric acid to form NO}_{2(g)}.$
T/F 5	The process used to cool down the gas to a liquid form is called crystallization.  False – It's a distillation, a common process in chemical reactions that form gases and a means of purification.
①/F 6	The speaker determines the concentration of his product by measuring its density.  True – Most physical properties of mixtures depend on the relative proportions of each compound.
$T/\widehat{F}$ 7	Using gloves in a lab is something one must always do without thinking.  False – Every safety measure is well thought of beforehand.
	II Translate into English
$\Diamond$	Oxydant : oxidizer
$\Diamond$	Fusée : rocket
$\Diamond$	Faire bouillir: to boil
$\Diamond$	Colonne réfrigérante : condenser column
$\Diamond$	Feuille d'aluminium : aluminium foil
$\Diamond$	Sous vide : under vacuum
$\Diamond$	Curieusement (expression idomatique) : oddly enough