<page>053r</page>

<image>http://gallica.bnf.fr/ark:/12148/btv1b10500001g/f111.image</image>

<div>  
<id>p053r\_1</id>  
<head><m>Soldering</m> a <tl>vise</tl></head>

<ab>It is good that the jaws of the <tl>vise</tl> should be high to make a long piece in it, and that the jaws join well to clamp a delicate object. To <m>solder</m> the <tl>nut</tl>, after you have forged the <tl>bolt</tl>, you <del>will make</del> will forge a long <m>iron strip</m> <del><fr>quar</fr></del> of such thickness that it can fit into the notch of the <tl>bolt</tl> when red hot, &amp; you will bend it <del><fr>po</fr></del> all around, striking it with a <tl>hammer</tl>. Once it is well <del><fr>jo</fr></del> wrapped around, you will insert <del>it</del> the <tl>bolt</tl> <del><fr>o</fr></del> around which <del>is</del> it is wrapped.</ab>

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<div>  
<id>p053r\_2</id>  
<head><m>Copper</m></head>

<ab>If, in the fire &amp;melting, it touches the <m>iron</m>, this <m>iron</m> will be afterwards so brittle that it will be able to be forged.</ab>

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<div>  
<id>p053r\_3</id>  
<head>Casting of <m>lead</m></head>

<ab>One mixes it, according to some, with <ms>half</ms> <m>tin</m> &amp; <ms>half</ms> <m>lead</m> and, to <add>heat</add> <del><ill/></del> it, one mixes in a little <m>sublimate</m>. It casts well in small sizes in a <tl><m><al>cuttlefish</al> bone</m></tl>, provided it is good.</ab>

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<div>  
<id>p053r\_4</id>  
<head>Molding of <m>Paper</m></head>

<ab>Boil <add>over hot <m>ashes</m></add> some <m>cotton</m> in <m><la>aqua fortis</la></m> mixed with <m>sal ammoniac</m>, like <m><la>aqua regia</la></m>, and the <m>cotton</m> will become very fine, like powder. Mix it next it with <m>gummed water</m> &amp; you will cast very delicately.</ab>

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<id>p053r\_5</id>  
<head><pa>Almond trees</pa>, <pa>apricots</pa></head>

<ab>They come in quite straight if one grafts them. And all trees with pitted fruit, like <pa><fr>pavis</fr></pa>, <pa><fr>mericotons</fr></pa>, <pa><fr>alberge</fr></pa>, <del><fr>vie</fr></del> <pa>apricots</pa> &amp;c., comes in best on an <pa>almond tree</pa> grafted <fr>en escusson</fr>.</ab>

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<div>  
<id>p053r\_6</id>  
<head><m>Lasting of lead</m> and <m>copper</m></head>

<ab><m>Lead</m> &amp; <m>tin</m> come out well in <m>white chalk</m> but the softer it is the better. The one from <pl>Champaigne</pl> reaches the price that is fixed in <pl>Lyon</pl>. <m>Burnt &amp; calcined <al>horse</al> bones</m> mold very neatly.</ab>

<ab>  
<margin>left-bottom</margin>

<render>wide</render>  
I believe that the <m>marrow from the horns of <al>oxen</al></m> or <m><al>sheep</al></m>, that is to say, the <m>spongy bone</m> from the inside, molds very neatly and is better than <m>bone</m>.</ab>

<ab>  
<margin>right-bottom</margin>  
Note that all <m>brittle metal comes out better than fat</m> ones. Also, <m>lean sand</m> receives it better &amp; absorbs it rather than the <m>dense one</m>.</ab>

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