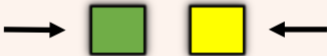


# QUESTIONS AND ANSWERS FINISHES FOR POLYMERS AND METALS

This mobile revision pdf is based on detailed work found in the 'MATERIALS' and 'EQUIPMENT' sections.

Tap on the green and yellow link buttons below to go to the website.



Tap the blue button to view all work covered by this Revision PDF



# QUESTIONS AND ANSWERS FINISHES FOR POLYMERS AND METALS

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## HOW TO USE THIS REVISION PDF

Read and attempt answering each question, before following the link to a potential answer. Also, consider working in pairs.

## METALS - QUESTIONS ONE TO FIVE

## METALS - QUESTIONS SIX TO TEN

## POLYMERS - QUESTIONS ELEVEN TO FIFTEEN

**TAP / CLICK THE LINK  
BUTTON FOR ALL  
MOBILE APPS**



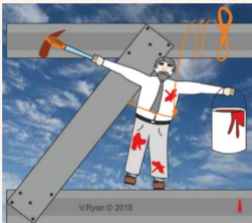
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## QUESTION 1a

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**Why are some metals protected with a 'finish', such as paint?**

**Tap the image a potential answer**



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## QUESTION 1b

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An unwanted finish to metals is corrosion.

**What is corrosion?**

**Tap the image** a potential answer



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## QUESTION 1c

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Corrosion can pose dangers to steel structures.

**Why is it a problem?**

**Tap the image** a potential answer



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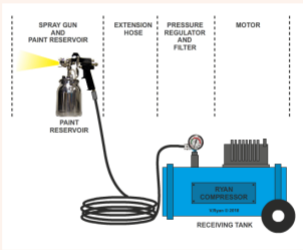


# QUESTION 1d

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## How is paint applied to a metal surface?

Tap the image a potential answer



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## QUESTION 1e

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**What are the differences between water and solvent based paints?**

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## QUESTION 2a

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**What is 'anodising' of aluminium?**

**Tap the image a potential answer**



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## QUESTION 2b

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**Describe some of the practical applications of anodised aluminium.**

**Tap the image a potential answer**



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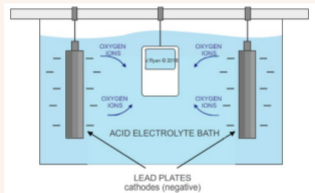


## QUESTION 2c

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**Describe the process of anodising aluminium.**

**Tap the image a potential answer**



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## QUESTION 3a

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# What is a machined finish?

Tap the image a potential answer



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## QUESTION 3b

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This machined finish is produced on a metalworking lathe.

**What is the finished called?**

**Tap the image** for a potential answer



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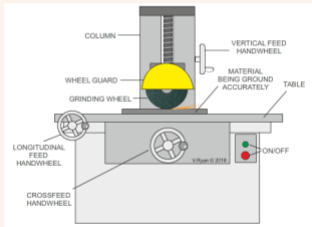
## QUESTION 3c

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This machine is used to produce a very accurate and fine finish to the surface of metals.

**What is the machine called?  
Describe how it works.**

**Tap the image** for a potential answer



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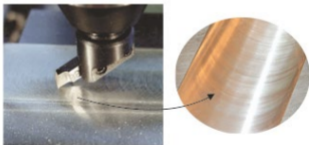
## QUESTION 3d

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This cutting tool produces a fine, 'circular' finish on the surface of metals.

**What is the tool called?  
What machine is it fitted to?**

**Tap the image** for a potential answer



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## QUESTION 4a

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**What is the name of the technique / process used to produce this hammered finish on 'soft' metals?**

**Tap the image for a potential answer**



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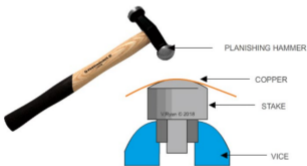


## QUESTION 4b

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**Describe the process you named in the previous question.**

**Tap the image for a potential answer**



Tap the blue button for the next slide / page.



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## QUESTION 5a

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**This mobile container has been powder coated. What is powder coating?**

**Tap the image for a potential answer**



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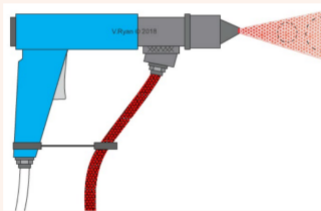


## QUESTION 5b

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**Describe the powder coating process.**

**Tap the image for a potential answer**



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## QUESTION 6a

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These products have been electroplated.

**What is electroplating?**

**Tap the image** for a potential answer



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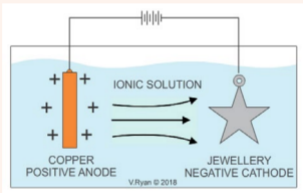


## QUESTION 6b

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**Describe the electroplating process.**

**Tap the image** for a potential answer



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## QUESTION 7a

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**Why are some metal surfaces  
lacquered?  
What is Lacquering?**

**Tap the image** for a potential answer



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slide / page.



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Contents page



## QUESTION 7b

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**Describe how lacquer is applied to the surface of a metal.**

**Tap the image for a potential answer**



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## QUESTION 8a

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# What is traditional oil blacking?

Tap the image for a potential answer



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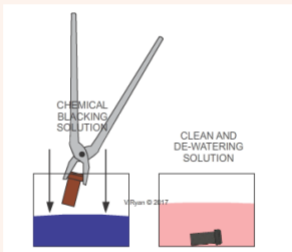


## QUESTION 8b

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**Describe the process called  
'chemical blacking'.**

**Tap the image** for a potential answer



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slide / page.



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Contents page





## QUESTION 9a

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These copper products have been etched.

**What is traditional etching?**

**Tap the image** for a potential answer



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## QUESTION 9b

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**Describe the traditional etching process. (Use sketches and notes).**

**Tap the image** for a potential answer



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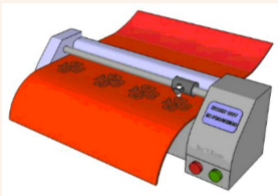
## QUESTION 9c

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Etching can be achieved by using an etching tank and a vinyl cutter.

**Describe the process. (Use sketches and notes)**

**Tap the image** for a potential answer



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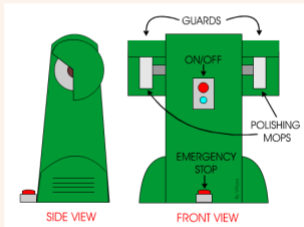
## QUESTION 10a

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This machine can be used to polish metal and plastic surfaces and edges.

**What is it called?**

**Tap the image** for a potential answer



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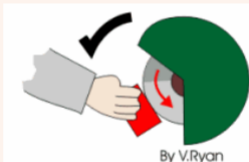


## QUESTION 10b

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**Describe the use of the machine you named in the previous question. Include safety factors.**

**Tap the image for a potential answer**



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## QUESTION 11a

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Plastics can be finished with a spray, such as rubberising spray.  
**What is rubberising spray?**

**Tap the image** for a potential answer



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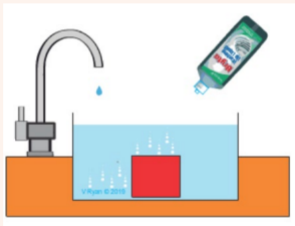
## QUESTION 11b

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Plastics must be carefully prepared before being spray finished.

**Describe the process. Use notes and sketches.**

**Tap the image** for a potential answer



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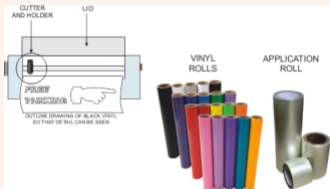


## QUESTION 12a

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### What are vinyl decals?

Tap the image for a potential answer



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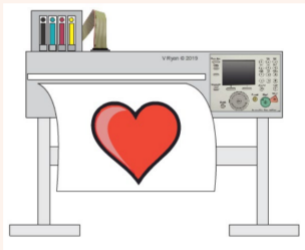


## QUESTION 12b

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### What are vinyl stickers?

Tap the image for a potential answer



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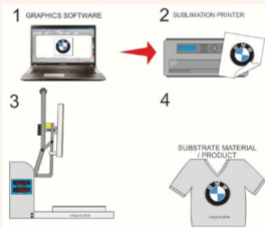
## QUESTION 12c

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Images can be transferred to a plastic surface using a heat press.

**Describe the process. Use notes and sketches.**

**Tap the image for a potential answer**



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## QUESTION 13

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A flocked finish can be applied to plastic surfaces.

**What is flocking?**

**Tap the image** for a potential answer



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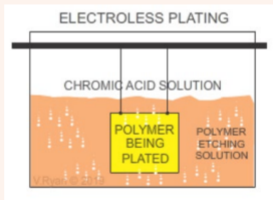
## QUESTION 14

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Plastics are non-conductive, which means they do not conduct electrical current. However, a finish can be added to the surface by Electroless Plating.

**Describe the process**

**Tap the image** for a potential answer



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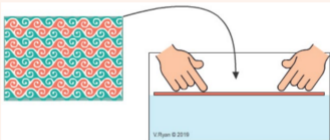


## QUESTION 15a

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**What is hydrographic / immersion printing?**

**Tap the image** for a potential answer



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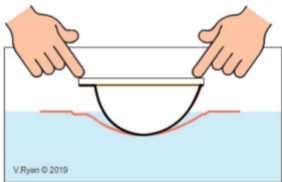


## QUESTION 15b

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**Describe the process called hydrographic / immersion printing. Use sketches and notes.**

**Tap the image** for a potential answer



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