

Ecological and Social Foot Print AND Environmental, Social and Economic Challenge

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS <https://www.facebook.com/groups/254963448192823/> www.technologystudent.com © 2022 V.Ryan © 2022

Environment - The Six 6rs In Detail - With Real Life Examples

App

PDF WORKSHEETS

POWERPOINT WORKSHEETS

PDF

P

Life Cycle - Recycling - 6rs

App

PDF WORKSHEETS

POWERPOINT WORKSHEETS

PDF

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Environmental Issues

App

PDF WORKSHEETS

POWERPOINT WORKSHEETS

PDF

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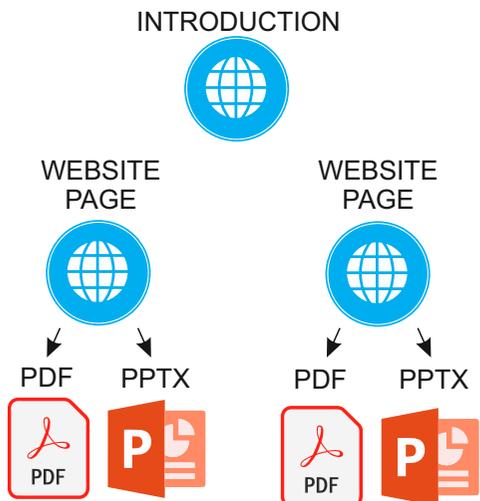
Recycling Symbols for Common Materials and Examination Questions

App

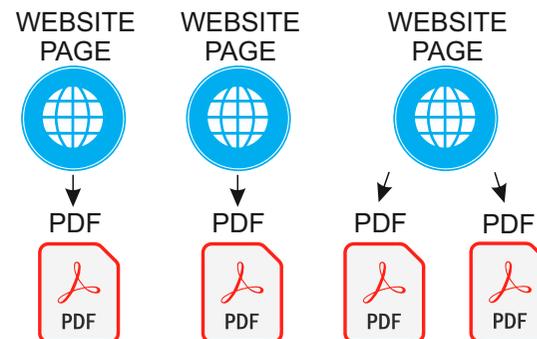
Revision app, interspaced with examination questions, with links to helpful information.

DETAILED INFORMATION AND QUESTIONS

Why Maintenance and Repairability should be Built in to the Products we Buy

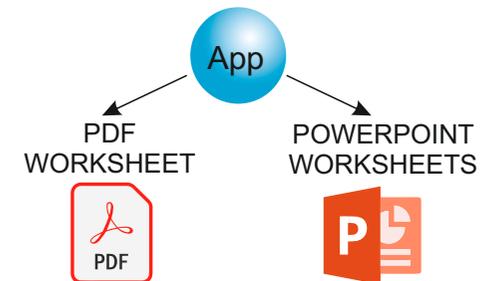


Carbon Footprint

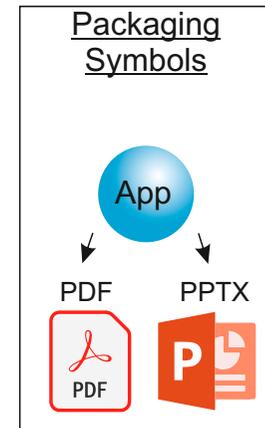
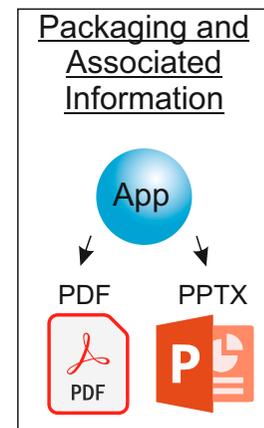
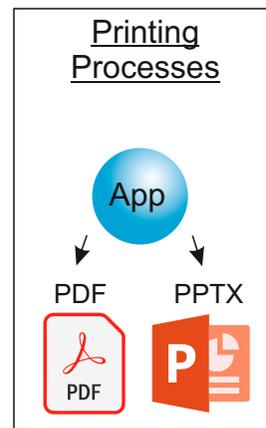
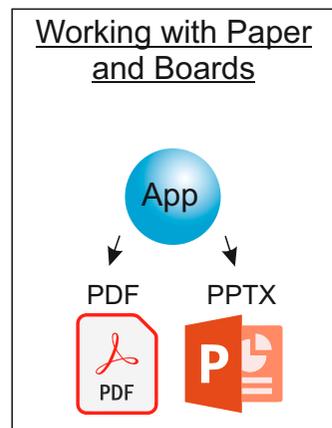
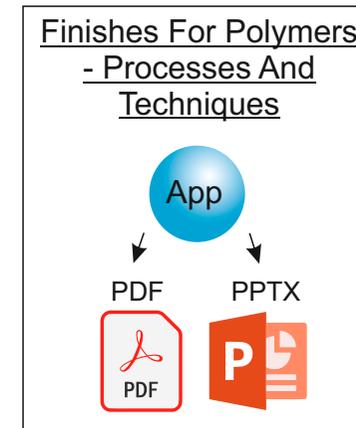
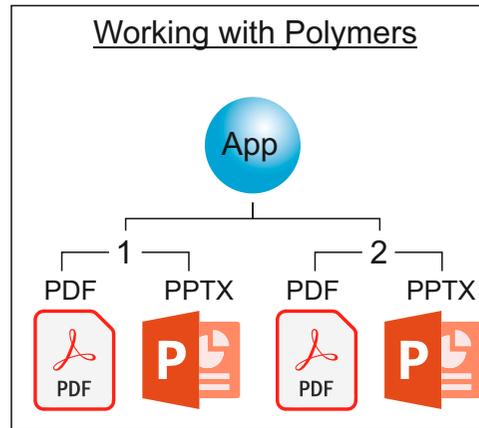
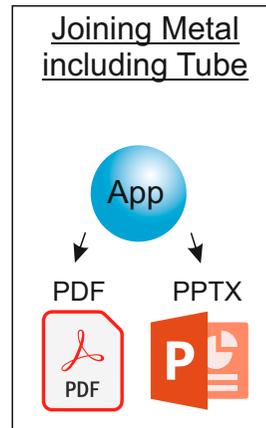
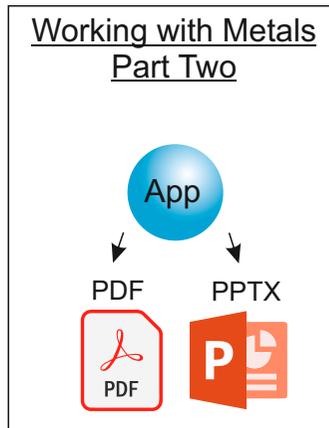
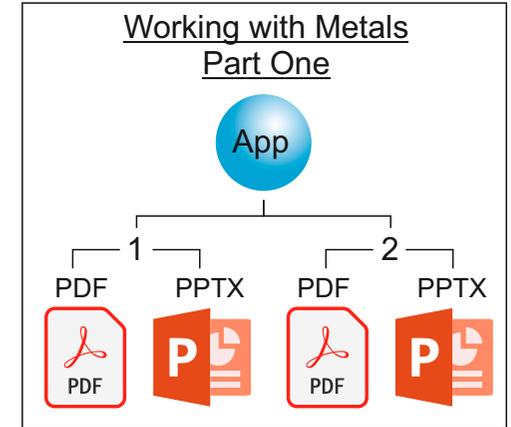
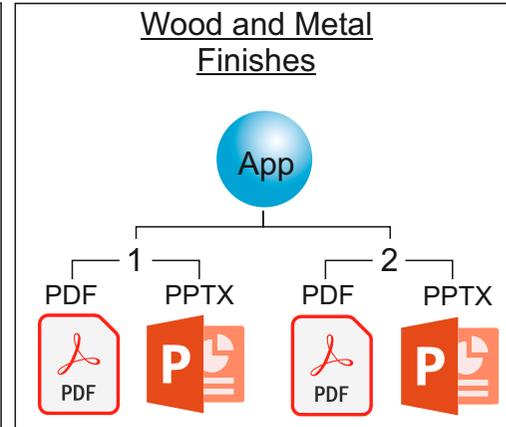
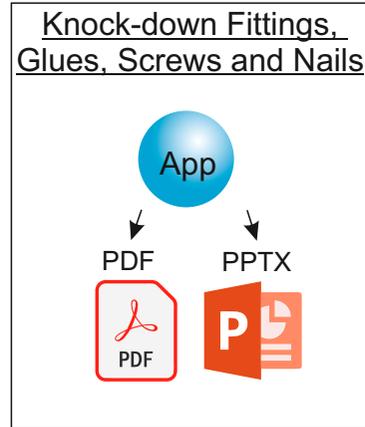
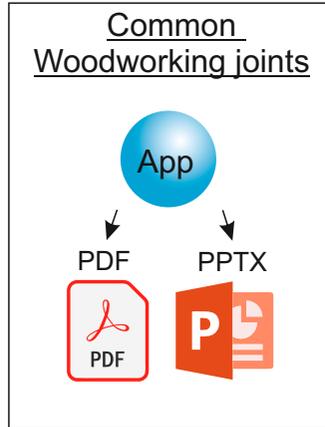
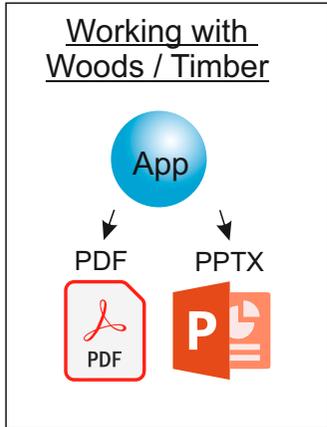


Much of this is covered in general terms in the Environmental Issues App and Worksheets.
These pages and questions offer more detail.

Moral, Ethical, Environmental Issues Relating To Design, Manufacturing and The Consumer



Very detailed App. Pupils may need specific guidance on its use. This may be useful as general reading, rather than attempting the worksheets.



Communication of Design Ideas and Prototype Development

Communication of Design Ideas - Interactive Exercises

Flat Surfaces including Natural Wood



More Advanced Shading - Including Curved Surfaces



Thick and Thin Lines Sketching



Introduction to Isometric Drawing



Isometric Drawing and Sketching



Introduction to Single Point Perspective



Isometric Circles and Sketching in Isometric



Introduction to Two Point Perspective



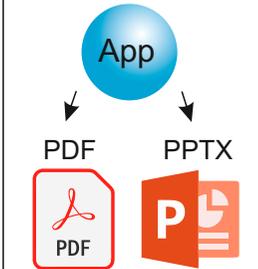
Estimated Perspective - Sketching in Perspective



Thumbnail Sketching Exercises - Presenting Ideas



Model Making And Prototypes



Basic Presentation of an Idea

WEBSITE PAGE



Sample Ideas Sheet

WEBSITE PAGE

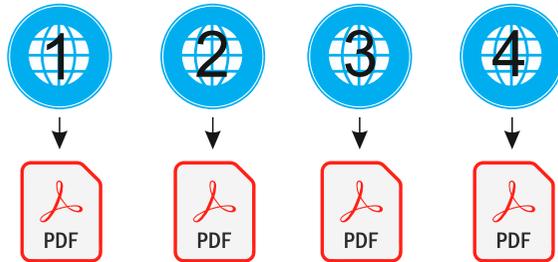


Orthographic Projection



Exploded Views

Website Page



Mathematical Modelling

Website Page



Computer Generated Models

Website Page



Developing A Design From A Theme - 1

WEBSITE PAGE



PDF



Developing A Design From A Theme - 2

WEBSITE PAGE



PDF



Sample 'Theme' Development Design Sheet

WEBSITE PAGE



Developing an Idea from an Existing Design

WEBSITE PAGE



Developing an Idea from the Property of a Material

WEBSITE PAGE



Developing an Idea from an Iconic Design

WEBSITE PAGE



Cut Materials Efficiently and Minimise Waste

Website Page



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Manufacturing Products And Reducing Waste Using An Accurate Template

Website Page



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Dealing with Waste Material - Reuse / Recycle

Website Page



Training / Educating Staff about the Importance of Reducing Waste

Website Page



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Planning Production and reducing Waste TESSELLATIONS

Website Page



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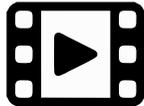
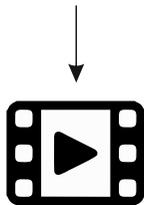


Calculate Surface Area and Volume e.g. Material Requirements.

Calculating the Area of a Square and Associated Examination Questions

PDF

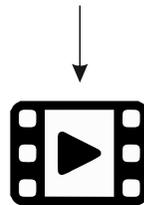
VIDEO INSTRUCTION



Calculating the Area of a Rectangular Prism and Associated Examination Questions

PDF

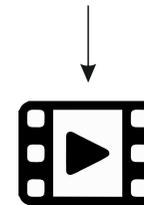
VIDEO INSTRUCTION



Calculating the Area of a Circle and Circumference and Associated Examination Questions

PDF

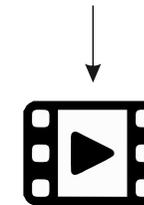
VIDEO INSTRUCTION



Calculating the Area of a Triangle and Associated Examination Questions

PDF

VIDEO INSTRUCTION



Si Units

Information Sheet

