

# Lesson Plan

## “Introduction to Manufacturing”

### Video or PowerPoint version

This resource is designed to help you explain manufacturing and engineering to your students. You can show the video in an assembly or lesson.

This handy factsheet on manufacturing well worth reading before delivering a session to students. <https://warwick.ac.uk/fac/soc/ier/ngrf/stem/basics/sources/manufacturing/> It covers the range of jobs in manufacturing, key facts and typical salaries.

#### Terminology.

**Manufacturing** is the production of merchandise for use or sale using labour and machines, tools, chemical and biological processing or formulation. The term may refer to a range of human activities, from handicraft to high tech, but is most commonly applied to industrial production, in which raw materials are transformed into finished goods on a large scale

**Engineering** is the application of science, mathematical methods, and empirical evidence to the innovation, design, construction, operation and maintenance of structures, machines, materials, devices, systems and processes. Other examples include chemical engineering, biological, electrical, mechanical, civil, medical, sports, textile, nuclear etc.

**Labour Market Information** – using data about the local economy, jobs on the rise, jobs on the wane, salaries, etc to make a considered decision about study, employment, living location etc.

**Labour Market Intelligence** – the process of collecting and understanding the data for use by individuals, business and government.

#### Useful resources for students who want to find out more.

National Careers Service this website has job profiles grouped into job families. The two job families for students to explore are manufacturing and engineering. The job profiles have a job description and explain the skills required in the job. <https://nationalcareersservice.direct.gov.uk/>

Resources	Technical
<p>To support you to introduce Bradford Manufacturing Week we have produced a video for you show in an assembly or class. The video runs for 21 minutes. We have also a PowerPoint version available which you can edit to reduce the running time.</p> <p>You can download the video or PowerPoint from the website.</p> <p>You can download a BMW2018 PowerPoint template from the website so that you can promote your BMW2018 school events.</p>	<p>Computer, Projector, Screen</p> <p>The presentation.</p>

Activity	Learning Outcomes	Time
<p>Teacher: introduce the session explain when the Bradford Manufacturing Week takes place - <b>8th – 12th October 2018.</b></p> <p>Explain what events your school is arranging for your students. You can download the blank PowerPoint template to use for to promote your events.</p> <p>Explain what events are being arranged centrally.</p> <p>Show the Introduction to Manufacturing presentation.</p> <p>Summary: Remind students of the school events they will be involved in.</p>	<ul style="list-style-type: none"> <li>• Students will have a better understanding of the range of jobs in manufacturing.</li> <li>• Students will understand that the roles are open to any gender.</li> <li>• Students will understand that there are jobs in manufacturing for all abilities.</li> <li>• Student will understand that there is career progression available in manufacturing.</li> <li>• The video promotes aspirations and the desire to achieve better grades.</li> </ul>	<p>Intro 5 mins</p> <p>Presentation 21 mins</p> <p>Summary 4 mins</p> <p>Total 30 mins.</p>
<p><b>After the event</b></p> <p><b>Teacher activity</b></p>	<p><b>Please help us collate the number of students involved in BMW2018 by completing the School Event Report</b></p>	
<p><b>More ideas of how to use the video or PowerPoint template</b></p>	<p><b>You can use the video:</b></p> <p><b>On your school intranet or school video screens</b></p> <p><b>On the parent pages of your website</b></p> <p><b>You can use the on the school video screens to promote your BMS2018 School events.</b></p>	

[www.bradfordmanufacturingweek.co.uk](http://www.bradfordmanufacturingweek.co.uk)