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| **LMI Video Resources: Teacher Guide** |
| **Session:** | **KS1 – Health & Life Sciences**  |
| **Summary:** | A series of 4 short videos have been made with employers in the North East to showcase key employment sectors from the point of view of primary aged children. This session has been developed to support KS1 when watching the Health & Life Sciences sector video called Molecule to Medicine?  |
| **Programme linked to:**  | North East Ambition’s Career Benchmarks: Primary Pilot | **Career Benchmarks** | Benchmark 2: Learning from Career and Labour Market Information |
| **Benchmark characteristics link** | * The school provides multiple opportunities / activities that encourage all children to explore different careers (this may also include the use of career websites and online resources).
* Throughout their time in school (by the end of Y6 or by end of Y4 in a first school) all children have explored basic labour market information to expand their awareness of future opportunities and possibilities.
* Throughout their time in school (by the end of Y6 or by end of Y4 in a first school) every child has explored a range of different careers and job roles and can articulate their personal aspirations.
* Labour Market Information is used to tackle stereotypical thinking and to raise aspirations.
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| **Age range:** | **KS1** **(most suitable for Y2)** | **Number of participants:** | **Whole class** |
| **Expected duration:** | **60 – 90 minutes** | **Room requirements:** | **Classroom with Smart Board or projector to share PowerPoint** |
| **Learning objectives**: | * Learn about ‘medicines’ and why we need them.
* Explore how science links with making medicines.
* Gain an awareness of the different job roles there are in Health & Life Sciences and how these may be appealing as a future career.
* Gain an understanding of what skills and academic subjects are required for roles in this sector.
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| **Links to curriculum:** | * **English:** Developing active listening skills. Learning new vocabulary.
* **Art and Design**: Produce creative work, exploring their ideas.
* **Science:** Recognise the importance of science and how this links with making medicines.
* **PSHEE:**Identifying skills and career opportunities.
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| **Resources required:** | Active Listening Pupil Worksheet – 1 copy per pupilDesign a New Medicine Pupil Worksheet – 1 copy per pupilI Could Be Pupil Worksheet – 1 copy per pupilPlain paper for noting down quiz answersPencils and colouring pens/pencils |
| **Activity 1** | **Introduction to Energy** | **15 minutes** |
| **Slide 1-8:** Session aims and introducing how science links to health and what is a medicine. Discuss with the class what they already know about science and medicine. **Slides 9-14:** Introduce some of the vocabulary featured in the video. Before revealing the simple definitions, see if learners know what each word means.  |
| **Activity 2** | **Video, active listening & quiz** | **25 minutes**  |
| **Slide 15:** Directs you to the link to watch the Molecule to Medicine video. Hand out the ***‘Active Listening Pupil Worksheets’*** and explain that they need to listen careful and whenever they hear a job mentioned then they tick it on their worksheet. Go through their answers when the video has finished. Please note – the same sheet can be used for all 4 sector videos meaning that once they have watched all 4 videos, they should have every job ticked on their sheets. It is suggested that you watch the video again prior to commencing the quiz, this however, is at your discretion and dependent on the needs of the pupils.**Slides 16-26:** Quiz – There are 5 questions; each slide features a question based on the video. Read these aloud to pupils and allow learners time to think and write down their answer on a sheet of paper. There are now answer slides for each question. For each slide ask students to share their answers before revealing the answers on the board.  |
| **Activity 3** | **Design a New Medicine** | **20 minutes**  |
| **Slide 27:** Challenge: Design a New Medicine. Give each learner the ***Design a New Medicine Pupil Worksheet***. This worksheet asks pupils to * Design a new medicine and come up with a name for it.
* Draw a picture of the medicine.
* Draw a picture of the medicine helping someone.
* Describe what the medicine does.
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| **Activity 4** | **What job would you enjoy doing? Activity** | **20 minutes** |
| **Slide 28:** Challenge: What job would you enjoy doing?Give each learner the **‘I Could Be Worksheet’.** Ask learners to choose one of the jobs they have just learnt about and draw a picture of themself doing this jobAdditional question on the sheet are: * List the skills you think you would need to do the job.
* What would you enjoy most about doing this job?
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| **Links to other resources** |
| **Arcinova Resources**Arcinova are a Health and Life Sciences Sector company based in Northumberland that serve global pharmaceutical and biotechnology companies. They put home learning resources onto their Facebook page every week such as a simple experiment for pumping hearts using coloured liquid, straws and balloons. Simply search Facebook for Arcinova UKArcinova have created a video tour of their site and facilities: <https://www.youtube.com/watch?v=386BVdc8d-g>Arcinova have created a video called ‘STEM Bring It On’:<https://www.youtube.com/watch?v=ZUvGHqntZ30> **The Royal Society Video Resource**The Royal Society have a great animation for encouraging young people to get involved with science:<https://www.youtube.com/watch?v=wstW5jy_WAU>**CPI Video Resources**CPI are a Health and Life Sciences Sector company based in Newton Aycliffe and Darlington that helps companies to develop, prove, prototype and commercialise their products. They have numerous videos on their YouTube channel that show people working in a variety of jobs inside their labs and facilities:<https://www.youtube.com/channel/UCx2z4s2m6EJOwTfP5XDLKEw>  |