



Discovering Science: Global Challenges

Lesson plan

<p>Starter activity</p> <p>Through discussion, ask students to agree on definitions for the following:</p> <ul style="list-style-type: none"> • Antibiotic • Microbe • Superbug <p>Guide the discussions and definitions.</p>	<p>Learning objectives</p> <ul style="list-style-type: none"> • To define some key terms related to antibiotics. • To describe historical developments in the field of antibiotics. • To investigate antimicrobial resistance, and ways to prevent it.
<p>Main activities</p> <p>As a class, watch the video in Step 1.5 (Development of antibiotics). Students should take notes and create a timeline of the dates and developments explained in the video. Ask one student to share their timeline.</p> <p>Students will now conduct research and produce a short report (250-500 words) on antimicrobial resistance. In their reports, they should include:</p> <ul style="list-style-type: none"> • a definition of antimicrobial resistance • recent developments in the use of antibiotics • ways of combating antimicrobial resistance. <p>Sources of information given in Step 1.7 will be useful for research, as well as any others identified by the students.</p> <p>When complete, students should swap with a peer and provide feedback, identifying any relevant information they missed.</p>	<p>Resources required</p> <ol style="list-style-type: none"> 1. Device for watching video. 2. Devices and relevant materials for conducting research. 3. Materials for producing reports. <p>Assessment for Learning</p> <p>Timelines, individual reports, peer feedback.</p> <p>Differentiation</p> <p>SEND: Videos have subtitles. Low ability: Peer-learning. Gifted and Talented: Peer-teaching.</p> <p>Plenary</p> <p>Lead a brief class discussion asking the following:</p> <p>What responsibilities do patients and doctors have in helping to use our current antibiotics sensibly?</p> <p>Make a list of responsibilities for both patients and doctors.</p>

