



Ecole Internationale Provence-Alpes-Côte d'Azur



## **Forward Planning**

### **Long-Term Semester Planning**

**Academic Year: 2020-2021**

**Class: S6**  
**Subject: Lab Science**  
**Teacher: J.RIEHL**  
**No. Students: 10**

## Curriculum – Long-Term Planning 2020-2021

Dates	Learning objectives	Learning outcomes / Assessment	Key Competences	Activities / Resources
September - October	<p><b><u>PHYSICS : Geometrical optics</u></b></p> <ul style="list-style-type: none"> <li>• Making an image : the camera obscura ; the convex lenses</li> <li>• Convex lenses and computer modelisation / graphical construction</li> <li>• Thin lens equations</li> </ul>	<p><b>B Test 1 : a practical, individual assessment of 1 hour</b></p> <p><b>A mark based on work, behaviour, lab reports</b></p>	<ol style="list-style-type: none"> <li>1. Literacy (reading and writing)</li> <li>3. Mathematics, Science, Technology and Engineering</li> <li>4. Digital</li> <li>5. Personal, Social and Learning to Learn</li> <li>8. Cultural Awareness and Expression</li> </ol>	<p><b>Practicals</b></p> <p><b>Working in groups</b></p>
<b>Vacances de Toussaint</b>				
November - December	<ul style="list-style-type: none"> <li>• The magnifying lens ; the refractors</li> <li>• The microscope</li> <li>• The telescope</li> </ul>		<ol style="list-style-type: none"> <li>1. Literacy (reading and writing)</li> <li>3. Mathematics, Science, Technology and Engineering</li> <li>4. Digital</li> <li>6. Personal, Social and Learning to Learn</li> <li>8. Cultural Awareness and</li> </ol>	

			Expression	
<b>B TEST 1</b>				
<b>Christmas holidays</b>				
<b>January - February</b>	<p><b><u>Techniques in CHEMISTRY</u></b></p> <ul style="list-style-type: none"> <li>• <b>Extraction of natural products : steam distillation (lavender, orange peels, cloves, ...)</b></li> <li>• <b>Extraction of natural products : lycopene from tomato (liquid-liquid extraction)</b></li> <li>• <b>Chemistry and cosmetics : making a cream</b></li> </ul>		<ol style="list-style-type: none"> <li>1. Literacy (reading and writing)</li> <li>3. Mathematics, Science, Technology and Engineering</li> <li>4. Digital</li> <li>6. Personal, Social and Learning to Learn</li> <li>8. Cultural Awareness and Expression</li> </ol>	
<b>Winter holidays</b>				
<b>March - April</b>	<ul style="list-style-type: none"> <li>• <b>Chemistry and cosmetics : making a gel</b></li> <li>• <b>Kinetic studies (rate of a reaction)</b></li> </ul>		<ol style="list-style-type: none"> <li>1. Literacy (reading and writing)</li> <li>3. Mathematics, Science, Technology and Engineering</li> <li>4. Digital</li> <li>6. Personal, Social and Learning to Learn</li> <li>8. Cultural Awareness and Expression</li> </ol>	

Spring holidays				
May - June	<ul style="list-style-type: none"> <li>• Chemistry and cooking : molecular gastronomy</li> <li>• Making polymers (milk, potatoe)</li> </ul>	<b>B TEST 2 : Written 30 min</b>	1. Literacy (reading and writing) 3. Mathematics, Science, Technology and Engineering 4. Digital 6. Personal, Social and Learning to Learn 8. Cultural Awareness and Expression	
B TEST 2				
June	Further chemistry			