

SSEP EXAMPLE // HEALTH INDUSTRY DEVELOPED BY // FRASER HIGH SCHOOL AND ST JOHN

ACTIVITY EXAMPLE



KEY WORDS

Biology | microbiology | microbes | bacteria | pharmaceuticals | testing | antibiotics | health | threat | treatment | virus | transmission | epidemic | pandemic | outbreak | strategy | infections | organisms | disease | hygiene | respiratory system | human body | CPR

ALSO USEFUL FOR

Social studies | Health | English | History | Biology

PROGRAMME OUTLINE

3 POINTS OF CONTACT

- Staff come into classroom (x2)
- Workplace visit (x1)

EXAMPLE

- 1. Staff come into classroom, introduce themselves, background to St John, their careers and how science is used in the industry. Focus on microbiology
- 2. Workplace visit includes tour of organisation, meeting staff and hearing about different careers.
- 3. Staff return to the classroom focus on circulatory and respiratory system. Student activity: CPR session.





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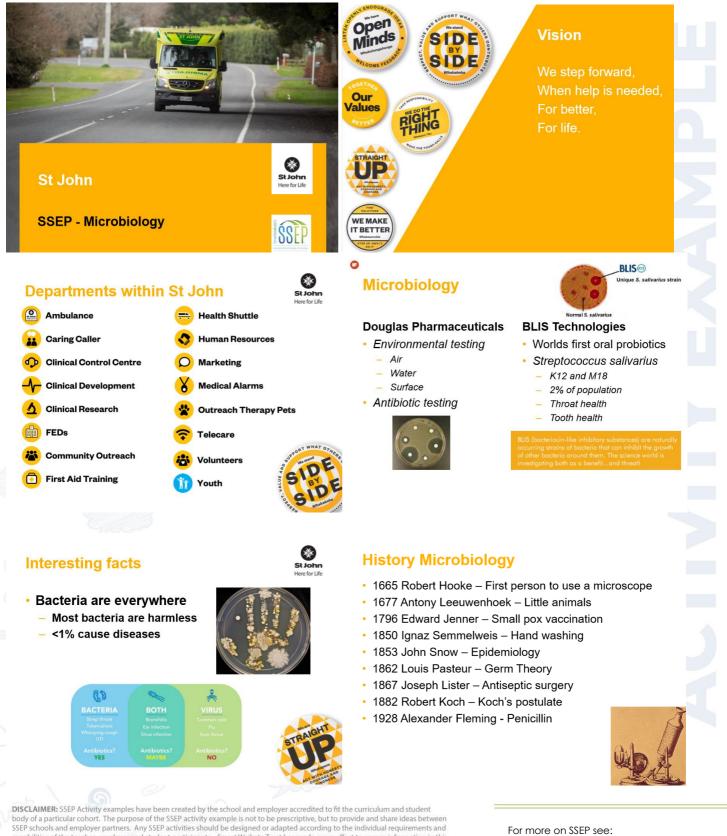






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Methods of transmission

- Reservoir
- Direct Transmission
 - Contact
 - Droplet
 - Inoculation
- Indirect Transmission
 - Vehicle
 - Vector
 - Air
 - Fomite

Epidemics and Pandemics

- 1800s Measles, Thyphoid, scarlet feaver
- 1890 Influenza pandemic
- 1918 Influenza pandemic
- 1971 Hepatitis A
- 1983 HIV epidemic
- 1991 Meningococcal B epidemic
- 1995 Rubella
- 1997 Campylobacteriosis
- 1999 2004 Pertussis epidemic
- · 2009 H1N1 pandemic
- Norovirus, Rotavirus .
- Flu transmission



Potential outbreaks

hases of pandemic strategy Plan for It (planning and

- preparedness)
- Keep It Out (border management) Stamp It Out (cluster control)
- Manage It: (pandemic management) Manage It: (Response/Recovery -
- post peak)
- Recover From It: (Recovery)



Day to day

- Colds
- Flu
- Fungal infection
- Skin infection •
- Other infections
- Vomiting and diarrhoea ٠
- UTI
- Sepsis •
- Septicaemia
- Immunocompromised patients
- Blood borne diseases •
- Antibiotic resistant organisms



A & & A



Infection control

St John has developed infection control procedures in line with the nature of work and the environment its staff are exposed to.

- Personal protective equipment
- Information
 - Preparation
- Training
- Decontamination
- Disinfection



	The primary route of transmission and level of PPE required
	Airborne
pectrum beta- (ESBL) organisms	Contact
ritis	Contact
1 1	Contact
and C	Standard
	Standard
ncluding rubella)	Airborne
iccal disease	Droplet
resistant ccal aureus	Contact
	Droplet
	Contact. Note: norovirus may become airborne during vomiting and airborne PPE is required for this.
	Droplet
cough	Droplet
X	Droplet
a (including	Standard
	Contact
igic viral disease	Transmitted by contact, but high risk PPE required.

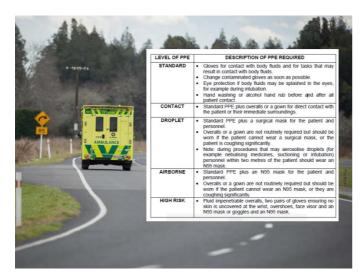
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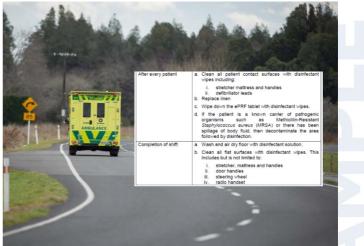
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CBR Paramedic

- The CBR Paramedic roles includes, but not limited to, the following:
- Respond to a HAZMAT/CBRe event;
- Provide triage and emergency medical treatment, including trauma, to members of the public during the decontamination phase of a mass causality
 HAZMAT/CBRe incident.



CBR Paramedic

- Provide medical support to New Zealand Fire Service HAZMAT teams; New Zealand Police specialist teams; New Zealand Defence Force Explosive Ordnance Disposal teams.
- Provide specialist PTS with ISO-POD



Extreme Transportation options





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Christchurch Earthquake – 22 Feb 2011

- Setting up a shelter at a Community gym.
- 300 people
- What are the things you need to consider to keep the people healthy?



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Cleanliness







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