B3 Disease FACT SHEET

Health and disease	
1. What is health	Physical and mental wellbeing
2. List factors that affect your health	 Diet Exercise Stress Events in your life Disease
3. Describe how different types of disease can interact	 Viruses can trigger cancer Physical ill health can lead to mental illness
Non-communicable disease and risk factors	
4. What do we call a disease which can't be passed from person to person?	Non-communicable
5. What do we call a factor ('something') that increases the chance of getting a disease?	Risk factor
6. State a risk factor for lung disease	Smoking
7. List risk factors for heart disease	 Smoking Not enough exercise Drinking a lot of alcohol Diet high in salt and fat Obesity
8. List risk factors for obesity	 Not enough exercise Diet high in fat and sugar
9. State a risk factor for cancer	 Smoking Sunburn Being exposed to carcinogens (chemicals that cause cancer)
10. State a risk factor for type 2 diabetes	 Obesity Diet high in sugar Not enough exercise
11.List harmful effects of smoking	 Cancer Heart disease Stroke
12.Which organs does alcohol damage?	LiverBrain
13.Name 2 activities which seriously harm unborn babies	SmokingDrinking alcohol

Cancer	
14. What is cancer?	Uncontrolled cell growth and division
15.Name 2 types of tumour	BenignMalignant
16.Which type of tumour does not spread/ invade other areas?	Benign
17.Which type of tumour is a cancer, which can spread and invade other areas?	Malignant
Communicable disease	
18. What is a communicable disease?	It can pass from person to person
19. What do we call micro-organisms which cause disease?	Pathogens
20.List 4 types of pathogen	 Bacteria Virus Fungi Protist
21. How do pathogens cause illness?	Make toxins
22.Which type of pathogen goes inside cells?	Virus
Examples of communicable diseases	
23.Name 3 diseases caused by viruses	 Measles HIV Tobacco mosaic virus (plants)
24.List the symptoms of measles	 Fever Red skin rash
25.How is measles spread?	Breathing in droplets from coughs and sneezes
26.Which cells does HIV infect?	White blood cells
27.What are the initial symptoms of HIV?	Like the flu
28.How is HIV spread?	Sexual contactSharing needles
29.When does HIV becomes AIDS?	The immune system is damaged and can't deal with other infections
30. What are the symptoms of tobacco mosaic virus?	Discoloured patches on the leavesSo slower plant growth
31.Name 2 diseases caused by bacteria	 Salmonella (food poisoning) Gonorrhoea
32. List the symptoms of salmonella food poisoning	 Fever, stomach ache Being sick, diarrhoea

33.How is salmonella spread?	Eating infected food
34.List the symptoms of gonorrhoea	 Thick yellow/ green discharge from the vagina or penis Pain when urinating (weeing)
35.How is gonorrhoea spread?	Sexual contact
36.How is gonorrhoea treated?	antibiotics
37.Name a disease caused by a fungi	Rose black spot (plants)
38.What are the symptoms of rose black spot?	Black spots on the leavesPlant grows slower
39. How is rose black spot spread?	Through water / wind
40. How is rose black spot treated?	Fungicides or remove infected leaves
41.Name a disease caused by a protest	Malaria
42.State a symptom of malaria	Fever
43.Name the vector for malaria	Female mosquito
44.How is the spread of malaria reduced?	Use mosquito netsStop mosquitos breeding
Human defences	
45.List the non-specific defences that protect the body	 Skin Mucus in the nose Mucus and cilia in the trachea and bronchi Hydrochloric acid in the stomach
46.Name the cells that defend the body against pathogens	White blood cells
47.List 3 ways white blood cells defend the body against pathogens	 Phagocytosis (eat them!) Make antitoxins Make antibodies
Immunity and vaccinations	
48.How do we describe someone who won't get ill, even if the pathogen comes into their body?	Immune
49.List 2 ways we can become immune	Being ill with the disease
50. Explain why you are immune once you have had a disease	 Having a vaccination White blood cells Make antibodies Very very very very fast when the pathogen comes into the body for a second time (so fast you don't get ill the second time)

51.What is inside a vaccine?	Dead/ weak pathogen
52. Explain why you are immune after a vaccination	 White blood cells Make antibodies Very very very very fast when the pathogen comes into the body for a second time (antibodies are made so fast you don't get ill the second time)
Medicines	
53.What do we call chemicals which reduce symptoms but which do NOT kill the pathogen?	Painkillers
54.What do we call chemicals which kill bacteria?	Antibiotics
55.What do we call bacteria which cannot be killed by antibiotics?	Antibiotic resistant bacteria
56.Why can't antibiotics kill viruses?	Viruses are inside the body's cells
Drug Testing	
57.Which drug comes from foxgloves?	Digitalis (heart drug)
58.Which drug comes from willow trees?	Aspirin (a painkiller)
59.Which drug was discovered by Alexander Fleming from the <i>Pencillum</i> mould?	Penicillin (an antibiotic)
60.Why do drugs needs to be tested?	 To check they work To make sure they are safe To find out how much to take
61.What are preclinical trials done on?	Cells, tissues, live animals
62.Who are drugs tested on in clinical trials?	Healthy volunteers and patients
63.What do we call a 'dummy' drug which is used in drug trials?	Placebo
64.What do we call a trial where the patients do not know if they are being given a drug or a placebo?	Blind drug trial
65.What do we call a trial where the doctors and patients do not know if they are being given a drug or a placebo?	Double blind drug trial