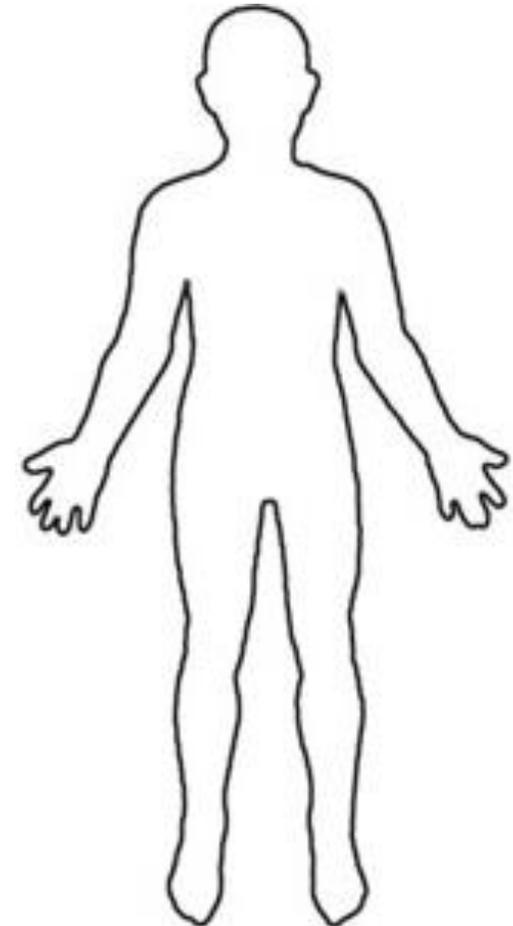


## The Everyday Cyborg

The **cyborg**, a being that is **half human** and **half robot**, is a common feature in science fiction stories. But did you know that technology has been used in medicine for hundreds of years? Indeed, with the advances being made in medical engineering, **implantable technology** is becoming more and more **common**. We are truly at the age of the '**everyday cyborg**'. What do you know about today's medical implants?

Below is a list of some of the more commonly used implantable technologies. **But can you describe what each device does and mark where on in the body it is used?**

	<b>Name</b>	<b>Function</b>
<b>1</b>	Coronary stent	
<b>2</b>	Intraocular lens	
<b>3</b>	Cochlear Implant	
<b>4</b>	Deep brain stimulator	
<b>5</b>	Artificial heart valve	
<b>6</b>	Pacemaker	
<b>7</b>	Gastric band	
<b>8</b>	Hip replacements	
<b>9</b>	Knee replacements	
<b>10</b>	Implantable insulin device	



## The Everyday Cyborg

Answers:

	<b>Name</b>	<b>Location</b>	<b>Function</b>
<b>1</b>	Coronary Stent	Arteries of the heart	A tube shaped device placed inside arteries to keep them open for the smooth flow of blood.
<b>2</b>	Intraocular lens	Eyes	An artificial lens to focus light in the eye, replacing those affected by cataracts or unable to function properly.
<b>3</b>	Cochlear Implant	Ears	A device that bypasses the normal hearing process by electrically stimulating the auditory nerve to provide a sense of sound to those with hearing loss.
<b>4</b>	Deep Brain Stimulator	Brain	A device that delivers preprogrammed electrical stimulation to malfunctioning areas of the brain.
<b>5</b>	Artificial Heart Valve	Heart	A replacement for faulty valves in the heart that allow the flow of liquid in one direction only, preventing dangerous backflow
<b>6</b>	Pacemaker	Heart	A device that delivers electrical stimulation to heart tissue in order to correct abnormal cardiac rhythms.
<b>7</b>	Gastric Band	Stomach	An inflatable silicone device placed around the stomach to reduce its size, in order to reduce food consumption.
<b>8</b>	Hip Replacement	Hips	An artificial joint designed to replace damaged or worn joints.
<b>9</b>	Knee Replacement	Knees	An artificial joint designed to replace damaged or worn joints,
<b>10</b>	Implantable Insulin Device	Pancreas	A device that delivers insulin quickly to the liver, in order to closely match the way insulin is normally delivered in the body.

