

Classroom resources

Resource 1: Pictures of white willow and meadowsweet, and information about salicylic acid.

Both plants contain salicin from which salicylic acid is derived. This was widely used in the 19th century for fever, gout, pain and inflammation. However, high doses of salicylic acid often resulted in gastric irritation and vomiting. In 1893, a scientist named Hoffman synthesized acetyl salicylic acid, or aspirin, which is less toxic than salicylic acid and less likely to irritate the stomach.



White Willow Salix alba By Willow



Meadowsweet Filipendula ulmaria By Sten Porse

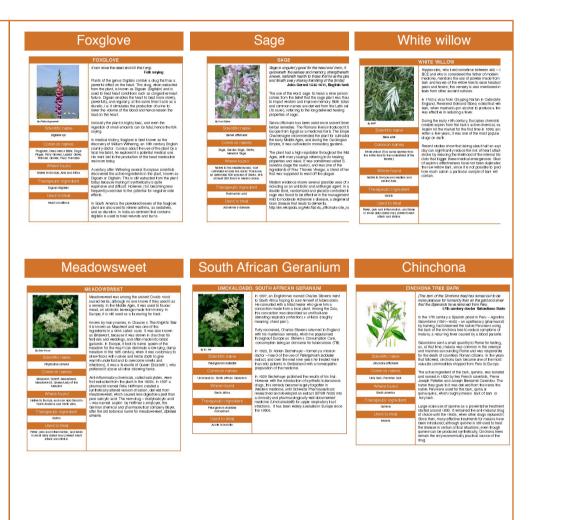


Classroom resources

Resource 2: Information sheets on the medicinal properties of several plants.

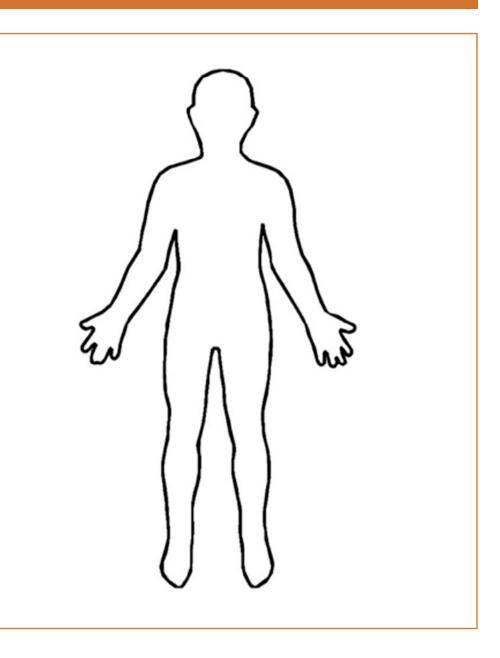
Nb: full sized sheets are available as individual PDFs

- HB_foxglove.pdf
- HB_sage.pdf
- Hb whitewillow.pdf
- HB meadowsweet.pdf
- HB_umckalo.pdf
- HB_cinchona.pdf











Classroom resources

Resource 4: Background information on the story of Charles Darwin and the 'thinking path'.

Charles Darwin was a brilliant naturalist who lived over 200 years ago. He is famous for his theory on evolution which was published in a book called '*On the Origin of Species*'. Darwin believed that all species (plants and animals) have descended from a common ancestry. Through natural selection individuals develop characteristics that make them more likely to survive. They would then pass these characteristics on to their offspring, and so on.

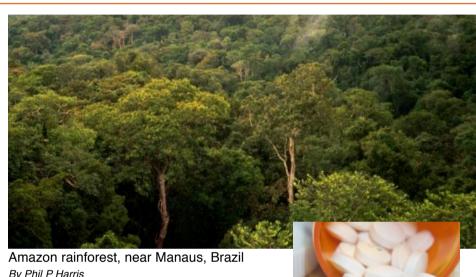
Darwin developed his theory through a voyage he took when he was a young man. He spent five years on a ship called The Beagle and visited countries as far away as South America. During his voyage he collected a huge number of geological and biological specimens many of which you can still see in the Natural History Museum in London.

Darwin suffered from bad health in later years and this kept him confined at home. It was at this time Darwin satisfied his great curiosity with experiments involving plants, for instance insect pollination and the movement of climbing plants. He would walk through the grounds of his estate at Down House three times a day, both for exercise and because it helped him ponder the questions that were bothering him; he called it his 'thinking path'.



Classroom resources

Resource 5: Two pictures.



By Phil P Harris



Prescribed medicine By Calvero

The Green Rehab Garden, Gothenburg Botanical Garden Gothenburg Botanical Garden



Classroom resources

Web links to download the pictures included in 'Healing Body and Soul' lesson resources:

White willow

http://en.wikipedia.org/wiki/File:Salix_alba_020.jpg **Meadowsweet** http://en.wikipedia.org/wiki/File:Filipendula-ulmaria.JPG **Foxglove**

http://en.wikipedia.org/wiki/File:Digitalis-stora_hultrum.sweden-24.jpg Salvia officinalis

http://en.wikipedia.org/wiki/File:Koeh-126.jpg

Salix alba

http://en.wikipedia.org/wiki/File:Salix_alba_leaves.jpg

Umckaloabo

http://i01.i.aliimg.com/photo/v0/107908423/Pelargonium_sidoides.jpg http://www.flickr.com/search/?q=Umckaloabo

Cinchona Tree bark

http://en.wikipedia.org/wiki/File:Cinchona_officinalis_001.JPG

Outline of human body

http://upload.wikimedia.org/wikipedia/en/0/0e/Outline-body.png

Amazon rainforest, near Manaus, Brazil

http://en.wikipedia.org/wiki/File:Amazon_Manaus_forest.jpg

Prescribed medicine

http://upload.wikimedia.org/wikipedia/commons/a/a9/Ritalin-SR-20mg-1000x1000.jpg

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