

DAWOOD PUBLIC SCHOOL

GARDENING

Course Outline – 2017-18

Grade II

AUGUST-OCTOBER

Seasonal Review - Late Summer (monsoon) to Autumn

Area of Study	Learning Objectives and Skill Development
<p>Understanding Soil</p> <ul style="list-style-type: none">• Experience texture of healthy soil vs sand <p>Basic factors required for plant growth</p> <ul style="list-style-type: none">• Seed• Soil• Sunlight• Water• Air <p>Basic Concepts of Sowing</p> <ul style="list-style-type: none">• Focus on seed sowing• Broadcasting Method <p>Spinach as Annual Vegetable</p> <p>Basic Concept of Herbs in Gardens</p> <ul style="list-style-type: none">• Recognise Coriander• Focus on Mint <p>Basic Concepts of Propagation</p> <ul style="list-style-type: none">• Cutting Method	<ul style="list-style-type: none">• Differentiate between soil and sand• Identify healthy soil• State the basic factors required for plant growth• Experience soil preparation for spinach• Identify spinach seeds• Recognise tools required for sowing:<ul style="list-style-type: none">➤ hoe➤ spade• Experience the broadcasting method for sowing spinach• Talk about the nutritional benefits of spinach• Identify mint as a herb• Differentiate between mint and coriander• Recognise the features of herbs:<ul style="list-style-type: none">➤ They have stems that stay green➤ They are fragrant➤ They are used for cooking and in medicine• Differentiate between 'growing from seeds' and 'propagation'• Understand that 'cutting' is one of the many methods of propagation:
<p>Practical:</p> <ul style="list-style-type: none">➤ Preparing Soil➤ Sowing Spinach➤ Propagation of Mint <p>Gardening Terms:</p> <p>Annual Vegetable – one which grows all year round</p> <p>Propagation – growing a plant without using seeds</p> <p>Fragrant – that which gives off a good smell</p> <p>IT Links for Reference:</p> <p>Preparation of Soil https://www.youtube.com/watch?v=NIzsK0xGgnI</p> <p>Sowing Spinach https://www.fabhow.com/how-to-grow-organic-spinach.html https://www.youtube.com/watch?v=glzA3aH35l4 https://www.youtube.com/watch?v=umU-16uq8wg</p>	

Propagation of Mint

<http://www.17apart.com/2013/03/how-to-propagation-regrow-mint-from.html>

<https://www.almanac.com/plant/mint>

https://www.youtube.com/watch?v=dqh3DH_JRKU

<https://www.youtube.com/watch?v=3EtQPGXuW6U>

NOVEMBER- JANUARY

Seasonal Review - Late Autumn to Winter

Area of Study	Learning Objectives and Skill Development
<p>Basic Concepts of Sowing</p> <ul style="list-style-type: none">• Focus on bulb sowing - clove• Focus on green garlic <p>Procedure for Harvesting</p> <p>Harvesting Leafy Vegetables</p> <ul style="list-style-type: none">• Spinach <p>Winter Flowers</p> <ul style="list-style-type: none">• Observation of Plantation	<ul style="list-style-type: none">• Identify a bulbs as a seed• Experience soil preparation for garlic• Identify the garlic bulb as a collection of cloves as 'seeds'• Differentiate between 'growing from seeds' and 'growing from bulb of plant' (clove)• Recognise the tools for harvesting:<ul style="list-style-type: none">➤ safety scissors➤ pruner• Recognise spinach as leafy vegetable plant• Differentiate between two stages of spinach harvesting.<ul style="list-style-type: none">➤ baby spinach➤ mature spinach• Discuss the difference in taste of spinach at both points of harvest• Identify winter flowers:<ul style="list-style-type: none">➤ Rose➤ Marigold➤ Petunia
<p>Practical:</p> <ul style="list-style-type: none">➤ Sowing Green Garlic➤ Harvesting Spinach <p>Gardening Terms:</p> <p>Bulb - a plant bud that begins to grow underground</p> <p>Clove - a small part of the bulb</p> <p>Pruner – a type of scissors</p> <p>Harvest – when vegetables or herbs are ready to be taken out from the soil or plant</p> <p>Leafy vegetable- used and eaten for their green leaves</p> <p>Mature - fully grown</p> <p>IT Links for Reference:</p> <p>Sowing Green Garlic</p> <p>https://www.youtube.com/watch?v=msb7ydto-zQ</p> <p>https://www.youtube.com/watch?v=rIsnAwoltBM</p> <p>https://craftingagreenworld.com/articles/how-to-grow-green-garlic/</p> <p>http://greyduckgarlic.com/Green_Organic_Garlic.html</p> <p>Harvesting Spinach</p> <p>https://www.youtube.com/watch?v=B2rc0tWqpxU</p> <p>https://www.wikihow.com/Harvest-Spinach</p>	

FEBURARY-APRIL

Seasonal Review - Late Winter to Spring

Area of Study	Learning Objectives and Skill Development
<p>Banana Compost - potassium for soil</p> <ul style="list-style-type: none"> • Banana compost is one type of compost • Banana peels add organic material and nutrients to soil <p>Insects in Plants</p> <ul style="list-style-type: none"> • Beneficial Insects • Harmful Insects <p>Importance of Insect Traps</p> <p>Spring Vegetables</p> <ul style="list-style-type: none"> • Eggplant as a spring vegetable • Sowing Eggplant 	<ul style="list-style-type: none"> • Differentiate between plain soil and fertile soil • Discuss the importance and benefits of compost • Identify banana peels as natural waste • Identify banana peels as a source of potassium • Describe the benefits of adding potassium rich compost to soil • Link importance of potassium in humans to potassium in soil • Differentiate between beneficial insects and harmful insects • Name some beneficial flying insects <ul style="list-style-type: none"> ➢ Earthworms ➢ Ladybug ➢ Honeybees • Construct a sticky trap for flying insects • Name some spring vegetables <ul style="list-style-type: none"> ➢ Egg plant ➢ Cucumber ➢ Okra (lady finger) • Identify the seeds of eggplant • Discuss the nutritional benefit of eggplant • Develop an awareness that ‘eggplant’ is also known as ‘aubergine’

Practical:

- Preparing Banana Compost
- Making an Insect Trap (sticky trap)
- Sowing Eggplant

Gardening Terms:

Organic – taken from nature

Nutrient – important substance for life and growth

Potassium – important mineral for healthy brain and muscles growth

Spring vegetable- vegetables grown in spring season

IT Links for Reference:

Banana Compost

<https://www.youtube.com/watch?v=31u1kWs3mlw>

<https://www.youtube.com/watch?v=krIpMMadfZE>

<https://www.youtube.com/watch?v=M8iZzbVA07M>

<https://www.gardeningknowhow.com/composting/ingredients/banana-peels-compost.html>

<http://homeguides.sfgate.com/compost-using-bananas-45722.html>

Yellow Sticky Trap

<http://www.instructables.com/id/Make-Your-Own-Sticky-Fly-Traps>

<https://www.youtube.com/watch?v=CxfEnwbIW2Q>

<https://www.youtube.com/watch?v=vONXlePZ23U>

Sowing Eggplant

<https://www.youtube.com/watch?v=Lnxja8S1D-c>

https://www.youtube.com/watch?v=hN0OplGok_o

<https://www.fabhow.com/grow-eggplant-pot.html>