

SPRING

green beans, kale,
strawberries, corn

SUMMER

potatoes, tomatoes,
peppers, cucumbers

FALL

carrots, pumpkins,
radishes, greens

WINTER

broccoli, squash,
onions, spinach

TREES

peaches, oranges,
pomegranate

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OLE! TEXAS

OUTDOOR LEARNING ENVIRONMENT

Outdoor Learning Environment (OLE! Texas) is a statewide initiative that improves outdoor spaces at childcare centers. The initiative adds design elements (looping pathways, vegetable gardens, more play and learning settings, etc.) to enable 0-5 year old to be active, learn in nature, and develop motor skills. It has received national attention as an innovative and evidence-based approach to increasing childhood physical activity and food awareness.

SPRING

green beans



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

SPRING

green beans

Light:

Sunny

Soil:

Well-drained

Temperature: 65 ° to 80 ° F

Moisture: Average

Planting: Seed after frost danger is past

Spacing: 2-4 inches x 18-30 inches

Hardiness: Tender annual

Fertilizer needs: Beans fix nitrogen once a good root system is established; Granular 21-0-0 can be used at 1½ ounces per 10 feet of row

SPRING

strawberries



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

SPRING

strawberries

Light:

Sunny

Soil:

Well-drained

Temperature: 65 ° to 80 ° F

Moisture: Average

Planting: Seed after frost danger is past

Spacing: 4-8 inches

Hardiness: Can live for several seasons

Fertilizer needs: Granular 21-0-0
can be used at 1½-2 ounces per
10 feet of row

SPRING

kale



OLE! TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained

Temperature: 60 ° to 65 ° F

Moisture: Keep moist not waterlogged

Planting: Set out transplants in early spring and fall

Spacing: 8-12 inches x 30-36 inches

Hardiness: Hardy biennial

Fertilizer needs: 1 ounce of Granular 21-0-0 per 10 feet of row

SPRING

corn



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

SPRING

corn

Light:

Sunny

Soil:

Deep, well-drained loam

Temperature: 60° to 75° F

Moisture: Average

Planting: Seed after danger of frost is past; extra sweet varieties should be planted when soil temperature reaches 65° F

Spacing: 8-12 inches x 24-36 inches; minimum of three rows side by side to ensure good pollination

Hardiness: Tender annual

Fertilizer needs: 1-2 ounces of Granular 21-0-0 per 10 feet of row

SUMMER

potatoes



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained with moderate organic matter

Temperature: 55 ° to 65 ° F

Moisture: Uniform moisture

Planting: 1½ - 2 ounce seed pieces in early spring or late summer

Spacing: 10-12 inches x 24-36 inches

Hardiness: N/A

Fertilizer needs: 1½ cups of Granular 10-20-10 per 10 feet of row before planting

SUMMER

tomatoes



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained, loam

Temperature: 70 ° to 80 ° F

Moisture: Moist, but not waterlogged

Planting: Transplant after all danger of frost is past

Spacing: 18-36 inches x 36 inches

Hardiness: Tender annual

Fertilizer needs: 1½ ounces of Granular 21-0-0 per 10 feet of row; repeat every 2-3 weeks

SUMMER

peppers



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:Loose and well-drained
with moderate organic matter

Temperature: 70° to 75° F

Moisture: Average

Planting: Set out transplants after soil has thoroughly warmed in spring; start seed indoors 6-8 weeks prior to this date

Spacing: 18-24 inches x 30-36 inches

Hardiness: N/A

Fertilizer needs: 1½ tablespoons of Granular 21-0-0 per 10 feet of row; too much may cause excess vegetative growth

SUMMER

cucumbers



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained; moderate-high organic matter

Temperature: 65 ° to 80 ° F

Moisture: Keep moist, not waterlogged

Planting: Seed after danger of frost has passed and soil has warmed

Spacing: 12-18 inches x 48-72 inches in rows

Hardiness: Very tender annual

Fertilizer needs: 1½ ounces of Granular 21-0-0 per 10 feet of row

FALL

carrots



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

FALL

carrots

Light:

Sunny

Soil:

Well-drained

Temperature: 60° to 65° F

Moisture: Keep moist, not waterlogged

Planting: Seed in early fall and late winter

Spacing: 2-3 inches x 8-12 inches

Hardiness: Hardy annual

Fertilizer needs: 1 ounce of Granular
21-0-0 per 10 feet of row

FALL

pumpkins



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

FALL

pumpkins

Light:

Sunny

Soil:

Well-drained

Temperature: 65 ° to 75 ° F

Moisture: Average

Planting: Seed after danger of frost is past and soil has warmed

Spacing: 2-3 feet x 3-5 feet

Hardiness: Very tender annual

Fertilizer needs: 1 week after blossoming begins 3 tablespoons of Granular 21-0-0 per 10 feet of row; repeat 3 weeks later

FALL

radishes



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

FALL

radishes

Light:

Sunny

Soil:

Well-drained

Temperature: 60° to 65° F

Moisture: Keep moist, not waterlogged

Planting: Seed in early fall and late winter

Spacing: 2-3 inches x 8-12 inches

Hardiness: Hardy annual

Fertilizer needs: 1 ounce of Granular
21-0-0 per 10 feet of row

FALL

greens



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

FALL

greens

Light:

Sunny

Soil:

Well-drained with high organic matter

Temperature: 60° to 65° F

Moisture: Keep moist, not waterlogged

Planting: Use transplants or seed in early spring and fall

Spacing: 3-6 inches x 8-12 inches

Hardiness: Hardy annual

Fertilizer needs: 1½ ounces of Granular 21-0-0 per 10 feet of row

WINTER

broccoli



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained with high organic matter

Temperature: 60° to 65° F

Moisture: Keep moist, not waterlogged

Planting: Use transplants in spring and fall

Spacing: 8-12 inches x 30-36 inches

Hardiness: Hardy annual

Fertilizer needs: After first frost, and as needed use 1½ ounces of Granular 21-0-0 per 10 feet of row

WINTER

squash



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained

Temperature: 65 ° to 75 ° F

Moisture: Average

Planting: Seed after danger of frost is past and soil has warmed

Spacing: Hills (2-3 plants per hill)
3-4 feet x 4-6 feet; single plants 2-3 feet
x 3-5 feet

Hardiness: Very tender annual

Fertilizer needs: 3 tablespoons of
Granular 21-0-0 per 10 feet of row,
repeat 3 weeks after first application

WINTER

onions



OLE! TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained loam

Temperature: 45 ° to 60 ° F during development; 60 ° to 75 ° F during bulbing

Moisture: Moist, but not waterlogged

Planting: Use sets, seeds or transplants in spring for bulbs; use sets in fall for perennial or multiplier onion types

Spacing: Standard - 1-4 inches x 12-24 inches

Hardiness: N/A

Fertilizer needs: 1 tablespoons of Granular 21-0-0 per 10 feet of row

WINTER

spinach



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained with high organic matter

Temperature: 60 ° to 65 ° F

Moisture: Keep moist, not waterlogged

Planting: Use transplants or seed in late winter and fall

Spacing: 3-6 inches x 8-12 inches

Hardiness: Hardy annual

Fertilizer needs: After first frost, and as needed 1½ ounces of Granular 21-0-0 per 10 feet of row

TREES

peaches



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained, loam

Temperature: 70 ° to 80 ° F

Moisture: Moist, but not waterlogged

Planting: Transplant during the dormant season

Spacing: 10 x 15 feet

Hardiness: Hardy Perennial

Fertilizer needs: Fertilize in early spring, early summer and early fall with one pound of Granular 15-5-10 per every three feet of height

TREES

pomegranate



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

TREES

pomegranate

Light:

Sunny

Soil:

Well-drained, loam

Temperature: 70 ° to 80 ° F

Moisture: Moist, but not waterlogged

Planting: Transplant during the dormant season (spring or fall)

Spacing: 12 x 15 feet

Hardiness: Hardy Perennial

Fertilizer needs: Fertilize in early spring, early summer and early fall with one pound of Granular 15-5-10 per every three feet of height

TREES

oranges



OLE!TEXAS
OUTDOOR LEARNING ENVIRONMENT

Light:

Sunny

Soil:

Well-drained, loam

Temperature: 70 ° to 80 ° F

Moisture: Moist, but not waterlogged

Planting: Transplant after all danger of frost is past or grow in containers and protect during cold spells

Spacing: 12 x 15 feet

Hardiness: Hardy Perennial

Fertilizer needs: Fertilize in early spring, early summer and early fall with one pound of Granular 15-5-10 per every three feet of height