# **Overview of Compost Systems**

There are so many different designs for compost systems - it can be overwhelming! This guide gives an overview of some of the system designs that are best-suited for school gardens

# **Barrel Turning**

DESCRIPTION: Compost materials are held in a turn-able barrel on a stand.

#### PROS:

- High degree of pest resistance
- Makes turning of materials easier
- · Finished compost in short period of time

#### CONS:

- Requires careful attention to composting details in order to achieve rapid composting
- Relatively expensive
- Full barrel is heavy
- Must compost in batches, so you may have to stockpile fresh materials

# **Plastic Holding**

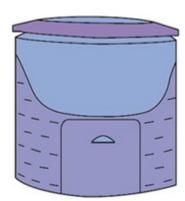
DESCRIPTION: Compost materials are held in a designated plastic composting container.

### PROS:

- Compact size
- Resistant to pests
- Lid sheds rain
- Plastic bin reduces moisture loss

## CONS:

- Some have limited holding capacity
- Relatively expensive
- Door may not open easily, especially if compost has compacted at bottom of bin



# Wire Holding

DESCRIPTION: Compost materials are held in a designated mesh wire container.

#### PROS:

- Inexpensive
- Easy to build
- Light weight
- Can be made from vinyl coated mesh or galvanized wire

#### CONS:

- Bin is easily crushed or bent
- Tendency for materials to dry out



# **Wood Holding**

DESCRIPTION: Compost materials are held in a designated wooden container, often made of pallets.

### PROS:

- Pallets are available free
- Diverts pallets from landfilling and open burning
- Large capacity

# CONS:

- Pallets are irregularly sized and sometimes broken
- Used pallets can look unattractive
- Heavy and bulky to move
- In static holding system expect slower composting rate



DESCRIPTION: Compost materials are held in a designated pile on the ground.

#### PROS:

- Inexpensive
- Low maintenance

#### CONS:

- Compost pile tends to spread out
- Heat loss reduces microbe activity
- Slow rate of composting

# **Soil Incorporation**

DESCRIPTION: Compost materials are buried under the soil to decompose.

## PROS:

- Low cost
- Low maintenance (after you get the hold dug)

## CONS:

- · Not suitable for large volumes of waste
- Requires dedicated space for a year or more
- Ground may freeze solid in winter
- Recommended for a limited range of waste types, primarily food scraps

# 2-Bin Turning System

DESCRIPTION: Compost materials are put in designated bins at certain times.

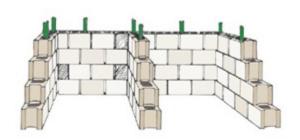
#### PROS:

- Can produce high-quality compost in a shorter amount of time
- Allows composting of large volumes of yard debris









Concrete block system is durable and long-lasting

#### CONS:

- · Labor intensive
- Moderately expensive to build using new blocks
- Requires careful attention to composting guidelines in order to achieve rapid composting

## 3-Bin Turning System

DESCRIPTION: Compost materials are put in designated bins at certain times.

#### PROS:

- Can produce compost in a shorter amount of time
- Allows composting of large volumes of yard debris
- · Concrete block system is durable and long-lasting

#### CONS:

- Can be expensive to build
- Requires careful attention to composting guidelines in order to achieve rapid composting
- Labor intensive
- · Requires fairly large amount of space



DESCRIPTION: Compost materials are put in a designated bin for worms to break down.

#### PROS:

- Can compost food and paper waste year round
- Produces high quality worm castings
- Can be scaled to match volume of food waste
- Rapid composting rate with minimal effort

## CONS:

- Must protect worms from hot sun and freezing weather
- Requires timely attention to maintenance
- Moderately expensive to get started
- Too much moisture or over feeding can kill worms



#### Resource:

Klickitat County Solid Waste (2005). Types of compost methods. Retrieved from: <a href="http://www.klickitatcounty.org/solidwaste/ContentROne.asp?fContentIdSelected=1939319116&fCateg">http://www.klickitatcounty.org/solidwaste/ContentROne.asp?fContentIdSelected=1939319116&fCateg</a>

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