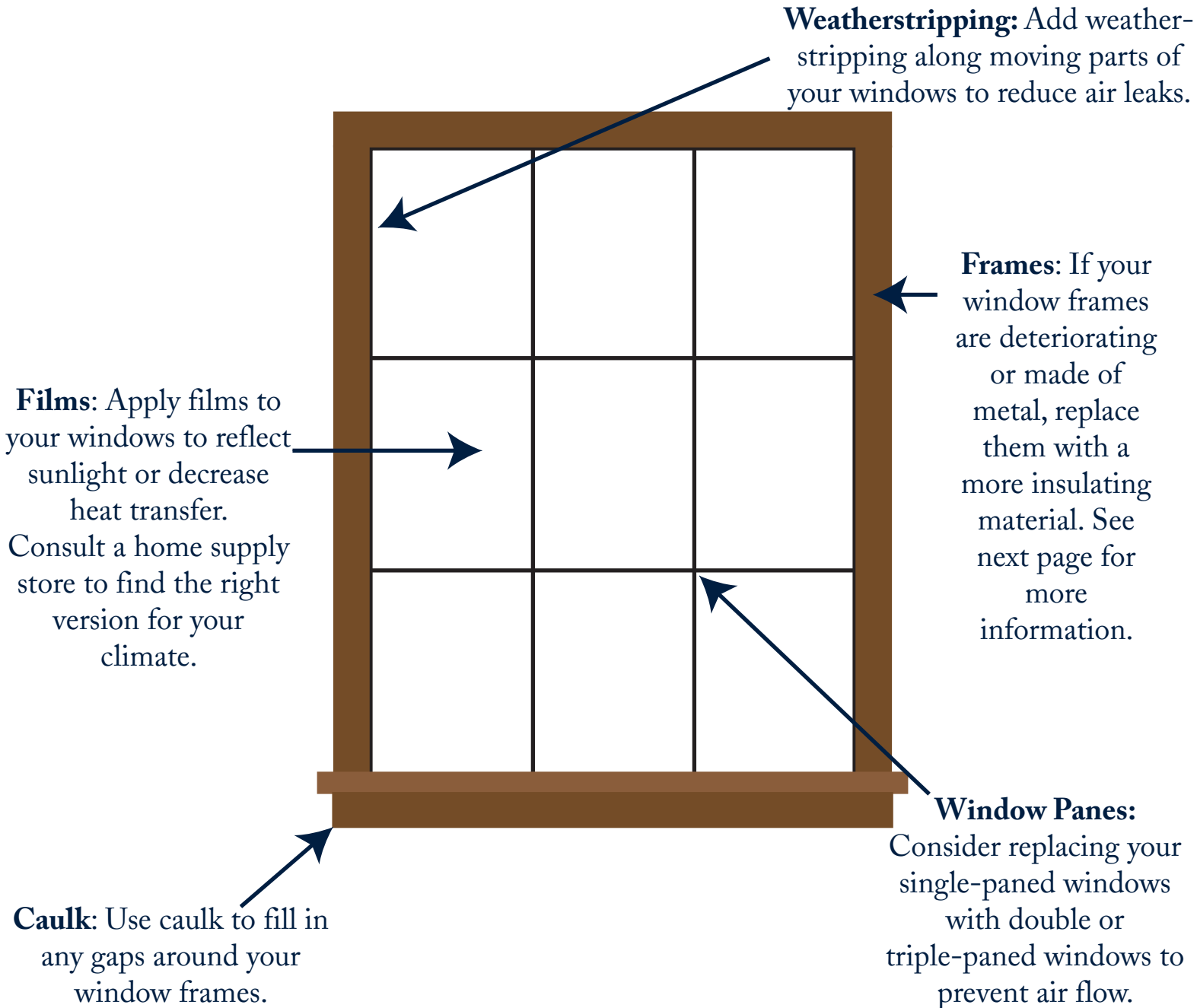


# WINDOWS

*A* guide to preventing air leaks in your home.

## Improve Your Windows:

Upgrade Your Frames and Panes to Save 10-25% on Your Bills



+

{the benefits}

Reduced  
heating  
bills

Less  
moisture  
and frost

Decreased  
paint/fabric  
fading

Lower  
lighting  
costs

Increased  
comfort

# Steps for Saving Money and Energy

1.

## Make Changes to your Current Windows

- Use caulk to seal any gaps around the stationary parts of your windows.
- Add weatherstripping to moving parts of your windows to keep air out. For more information about types of weatherstripping, visit the Department of Energy's site.
- Install drapes, heavy shades or awnings to prevent air from coming in.

2.

## Consider Window Coatings

Adding a film to your windows can decrease energy bills. Examples are:

- **Low-E coatings**: this type of coating prevents heat transfer through the windows.
- **Reflective coatings**: these films reflect sunlight, keeping both hot air and sunlight out. This is not very common, as lighting bills increase to offset lack of sun.
- **Spectrally Selective coatings**: best for hot climates, this type of coating filters 40-70% of heat and can reduce energy bills by 40%.

3.

## Install New Windows or Frames

{least efficient}

{more efficient}

{most efficient}

type of frame

### Metal

Heats up very quickly, making it a bad insulating material.

### Fiberglass

Made of glass fibers and plastic, this material can be filled with insulation

### Vinyl

If filled with insulation, this plastic frame can be a very effective energy saver.

### Wood

A good insulator, but requires maintenance because it expands and contracts.

number of panes

1

Only have 1 layer of glass; cheapest initial cost, but high energy bills.

2

These have two layers of glass; the space is filled with gas to prevent air leaks. Initially more expensive.

3

With three panes, these windows best prevent air leaks. Most expensive initially.