

Photosynthesis Promenade

(Chorus)

Pho-to-synthesis
Pho-to-synthesis
Pho-to-synthesis
Green plants feed themselves with this!

Class forms a circle around the mat. As chorus is sung, Chlorophylls move on to the leaf mat dancing as they go.

(Verse 1)

Couples to the center, skip and hop.
Couples to the center, skip and hop.
Couples to the center, skip and hop.
The sunshine fuels the plant food shop.

CO₂s and Waters move onto the mat. CO₂s are in pairs. Waters are singles.

(Verse 2)

Couples contribute CO₂
Couples contribute CO₂
Couples contribute CO₂
Carbon dioxide and water too!

CO₂s place name badges into green bag held by Chlorophylls. Waters place spray bottles in the bags. Each dancer removes a sugar packet card.

(Verse 3)

Leave your partner, look for three.
Leave your partner, look for three.
Leave your partner, look for three.
A sweet treat for the plant you'll be.

Pairs of CO₂s break up and form groups of 3 with CO₂s and waters randomly mixed.

(Verse 4)

Chlorophyll joins the families,
Chlorophyll joins the families,
Chlorophyll joins the families,
To make the meals for plants and trees.

Chlorophylls direct waters and CO₂s to form groups of 3. Some waters and and CO₂'s will become singles.

(Verse 5)

Odd ones out taking fresh O₂.
Odd ones out taking fresh O₂.
Odd ones out taking fresh O₂.
The plants give us our fresh air, too.

Odd waters and CO₂s realize they have important work to do. They form O's above their heads and dance outside the leaf mat.

(Verse 6)

Green plants are the only ones,
Green plants are the only ones,
Green plants are the only ones
To make their own food with the
help of the sun!

New families of 3 dance together, pretend to eat sugar, and rub their tummies.

Pho-to-synthesis,
Pho-to-synthesis,
Pho-to-synthesis,
Green plants feed themselves with this.

All dance, facing the audience lining the outside edge of the mat with backs to the center. To make their point with the audience, singers may repeat the chorus.

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Students form a circle around the leaf tarp.

Sing the song to the tune of "Skip To My Lou".

Selected students stand outside the circle to represent the sun. With flashlights, they make hand movements to demonstrate the sun shining.

A few selected students wear green bandanas and dance around the inside of the leaf (circle) to represent the raw material chlorophyll. All students sing the chorus at this time.

Chorus... All students form a circle around the tarp and sing the Chorus while "Chlorophylls" move on to the tarp and dance.

Verse One... CO₂ Dancers pair up and all move to the center of the leaf. Pairs of water molecules move in through the stem of the leaf. Carbon dioxide molecules move in through the surface of the leaf (stomata).

Verse Two... Partners drop hands and form new groups of three mixing waters and CO₂s. Chlorophylls assist in assigning students to each group. Each newly formed group of three should have water molecules and carbon dioxide molecules. There will be several students who will not be able to join in a group of three. They will dance alone until verse 4.

Verse Three... CO₂s place their name badges into the green bags held by the Chlorophylls. Waters add their spray bottles to the bags. Each water and CO₂ should take a sugar packet card from the bag.

Verse Four... Chlorophylls move to the center of each group of three and continue to dance. Chlorophylls move their hands in a circular motion over newly formed groups of 3 to represent their action in the food making process. The actions in verses 3 and 4 represent the fact that, during photosynthesis, water and carbon dioxide work with chlorophyll to use the energy of the sun to make sugar. Oxygen is a by-product of this process.

Verse Five... Single dancers (Oxygen) leave the circle and move about the room, still dancing. Any water molecules that were not able to fit into a group of three should also leave the circle. This represents the process by which oxygen is returned to the atmosphere.

Verse Six... No added motions. Keep dancing.

Repeat Chorus