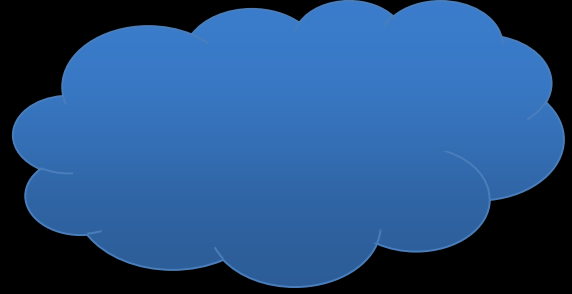
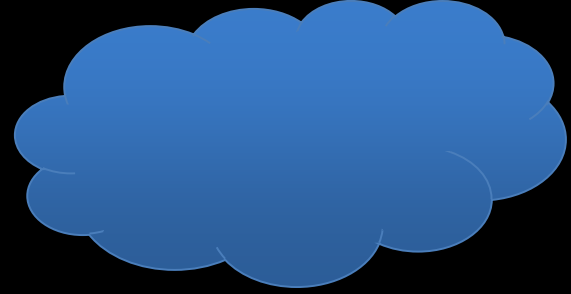
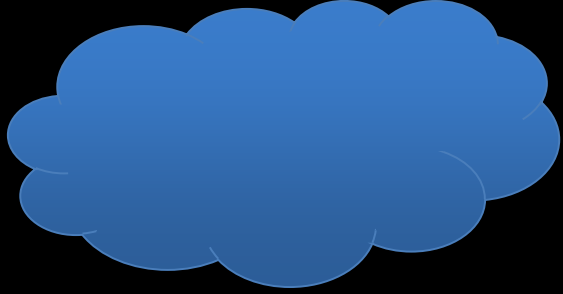


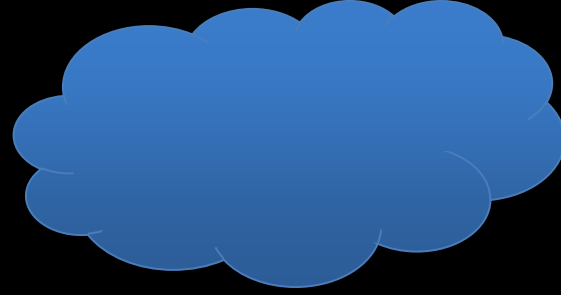
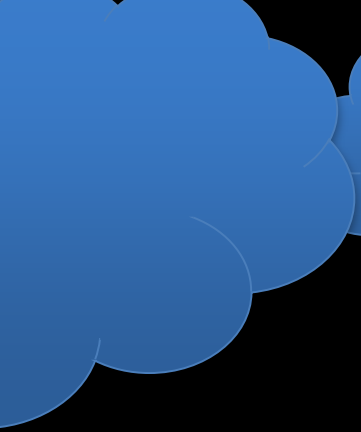
Welcome to
“Keeping It Green
At Ewa Makai”

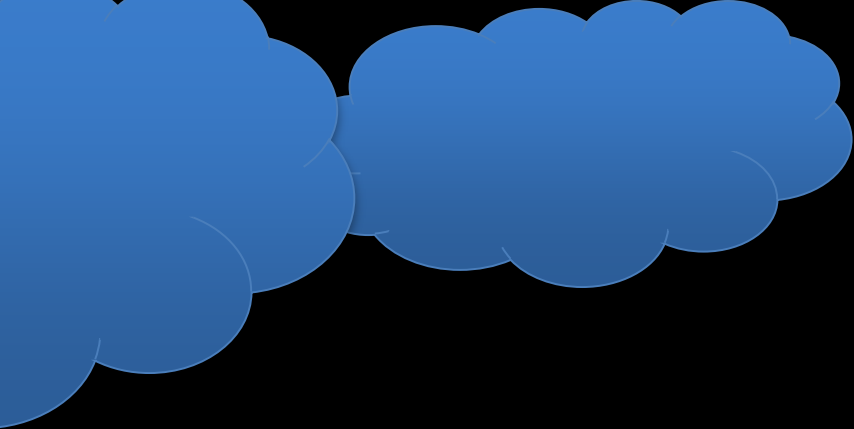
April 3, 2012

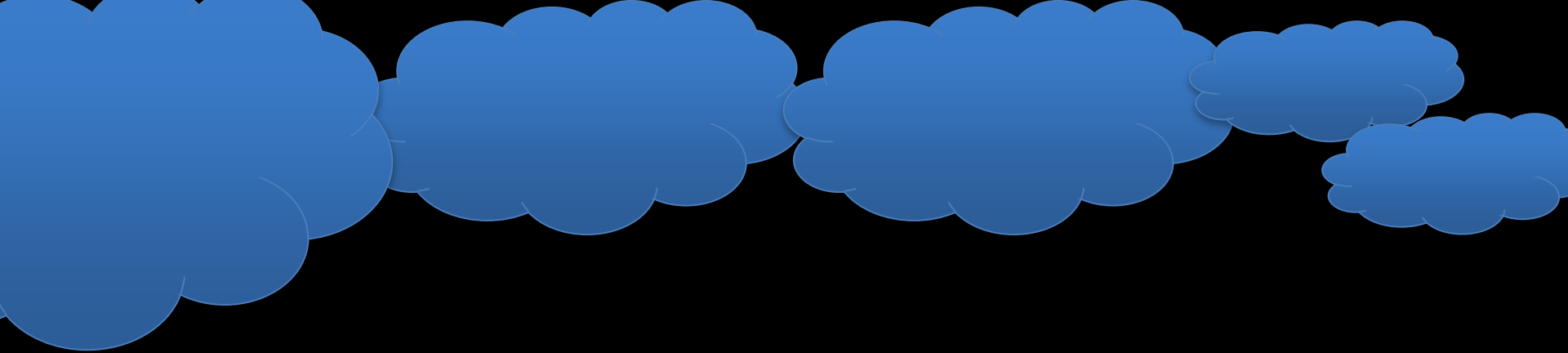






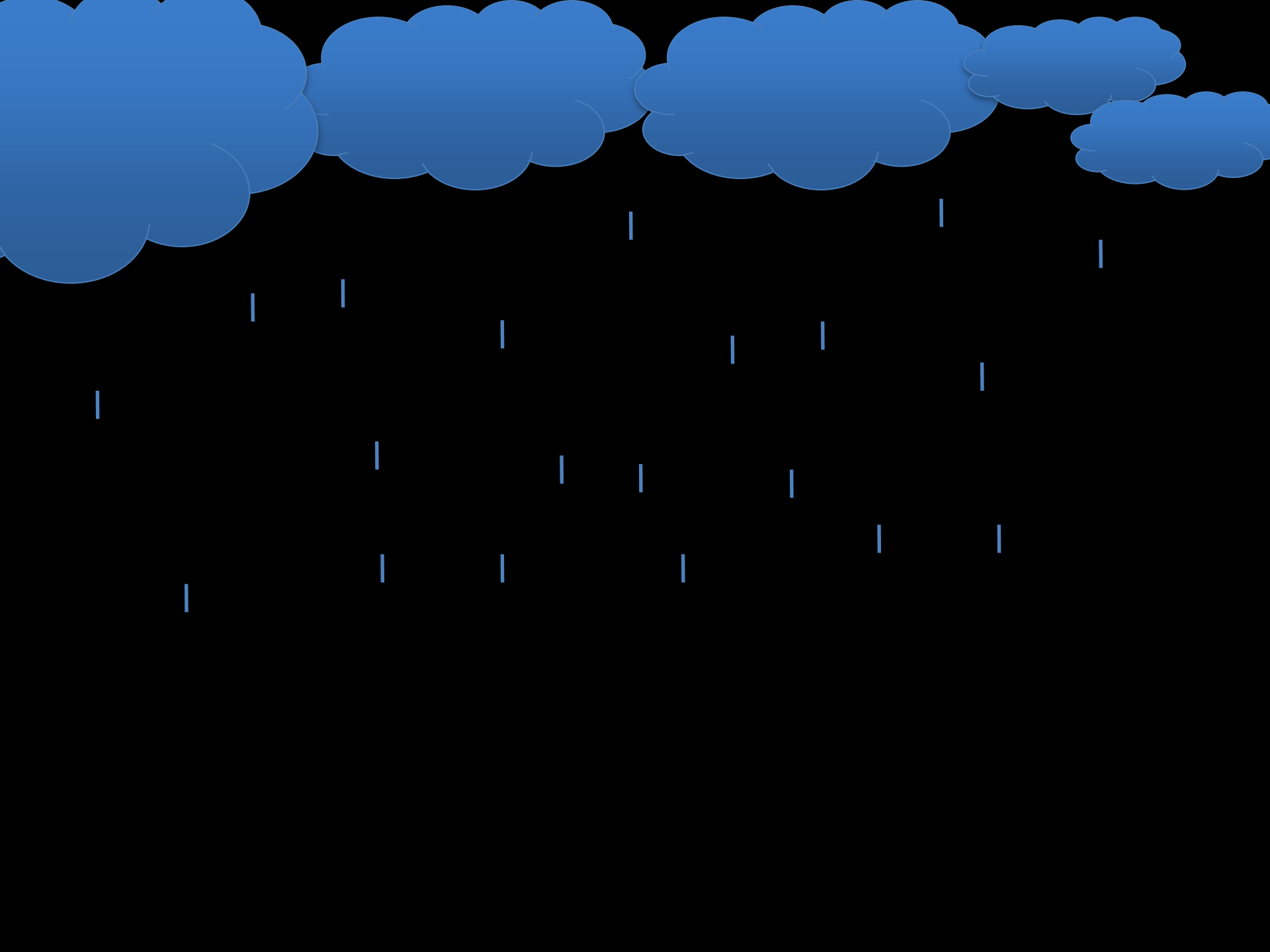


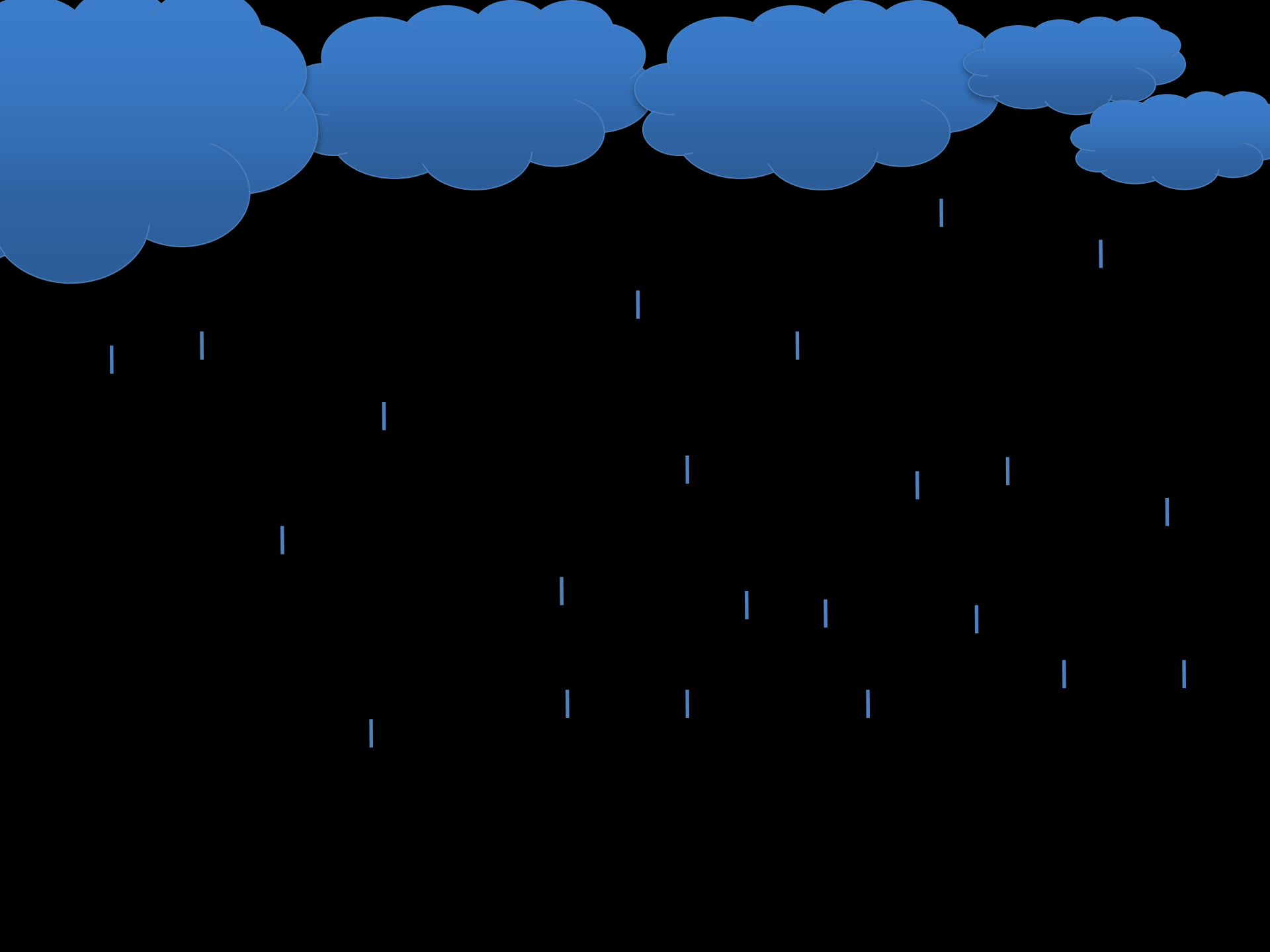






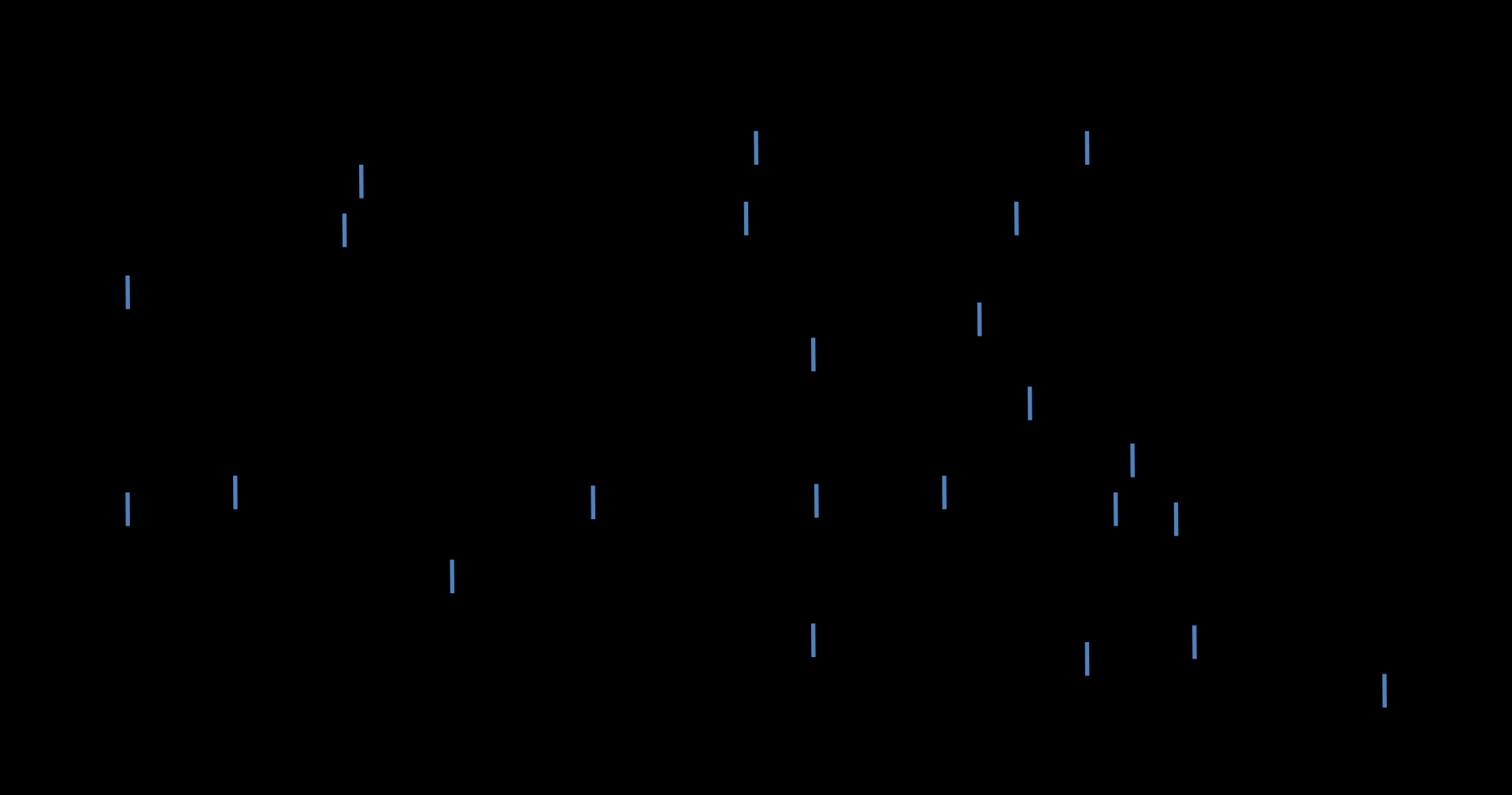
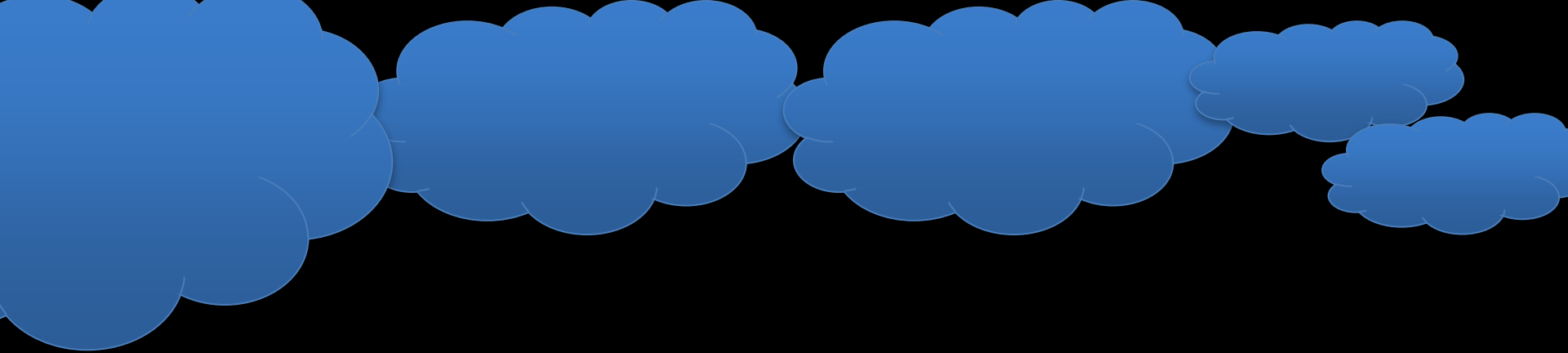


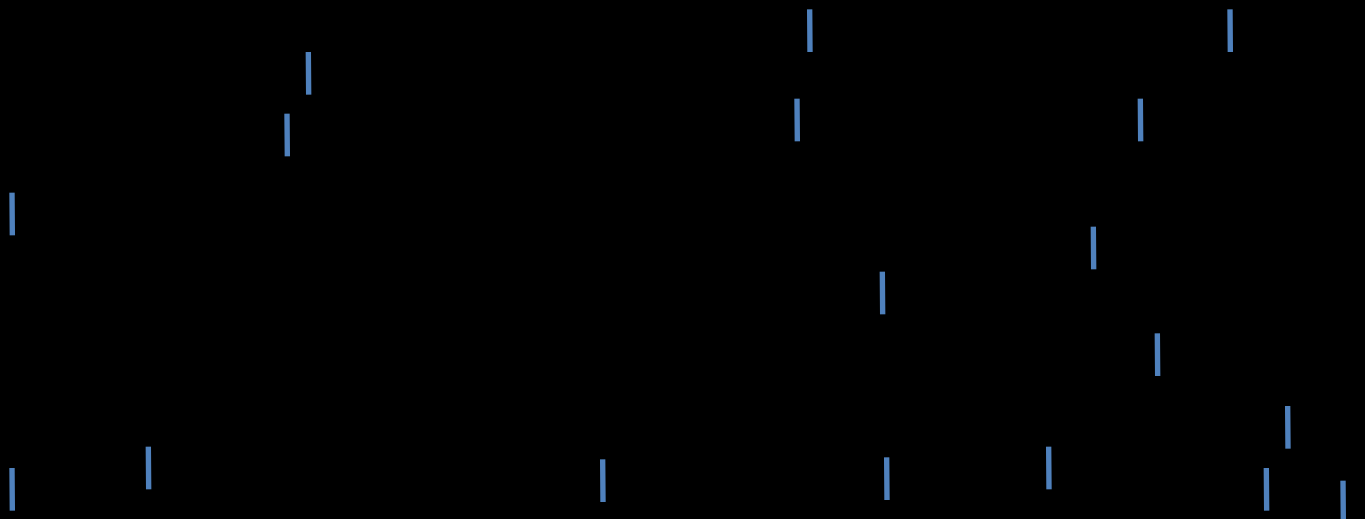
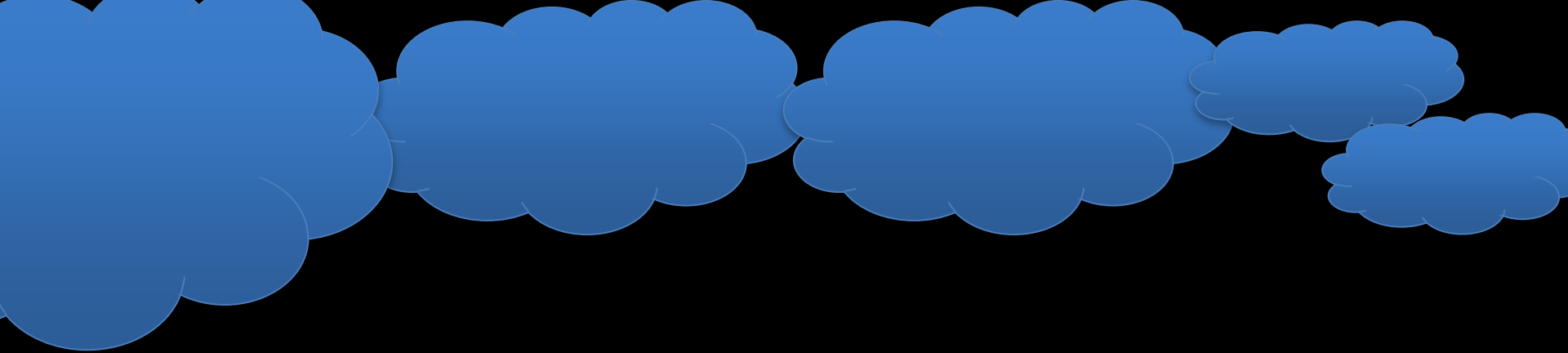


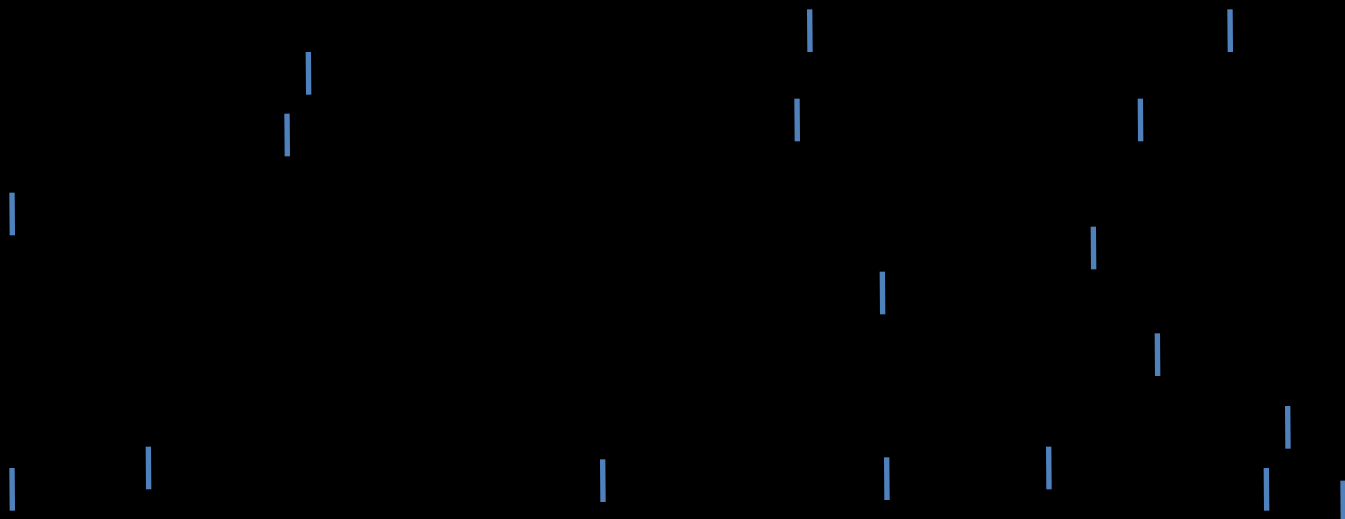
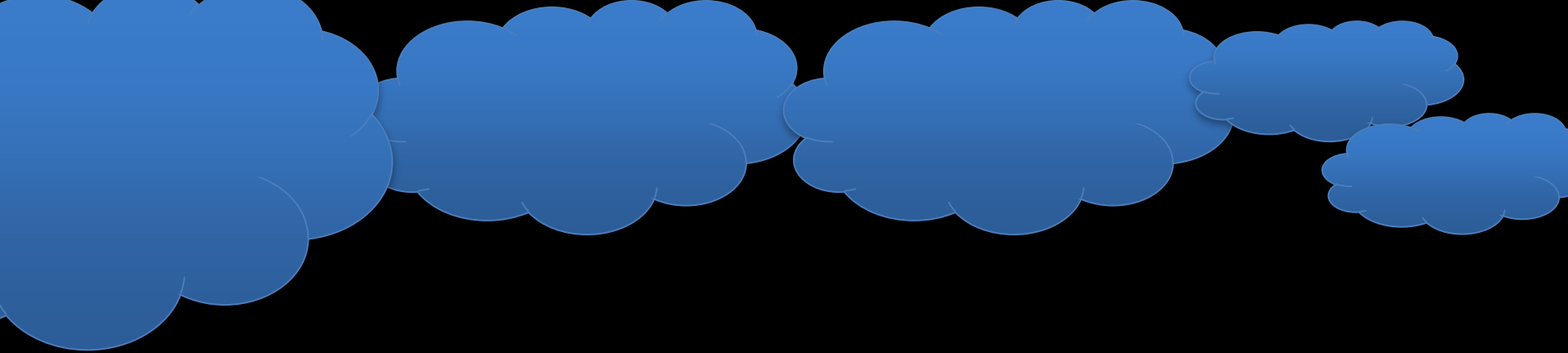


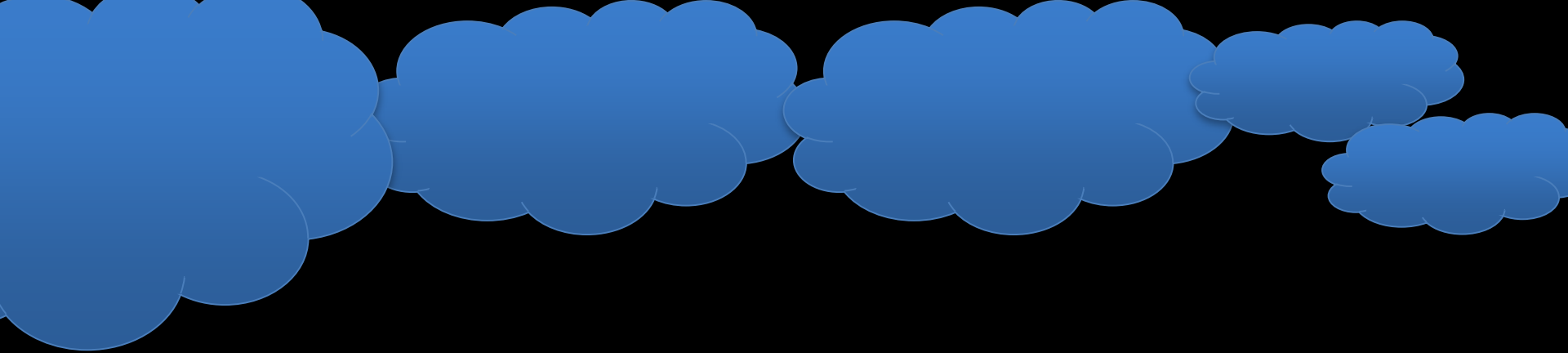


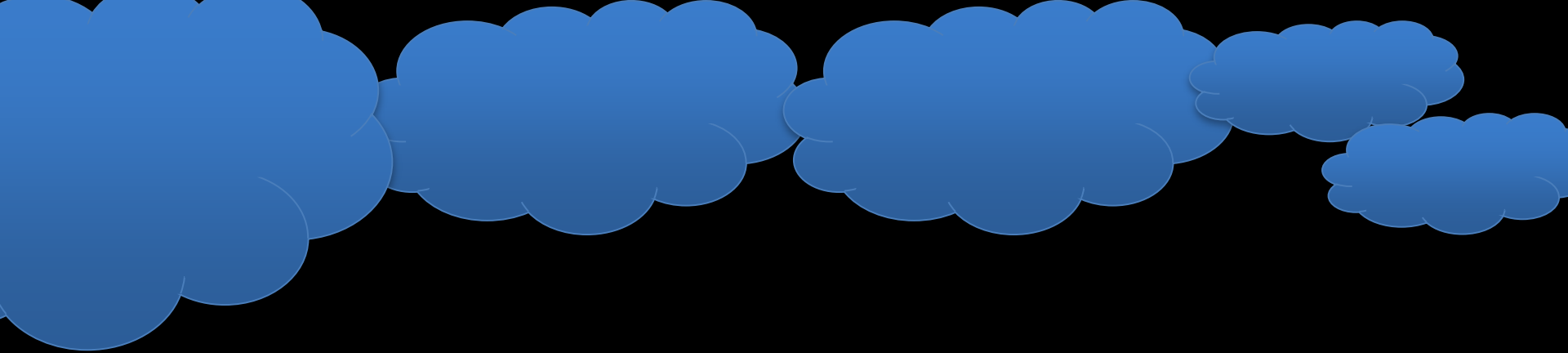








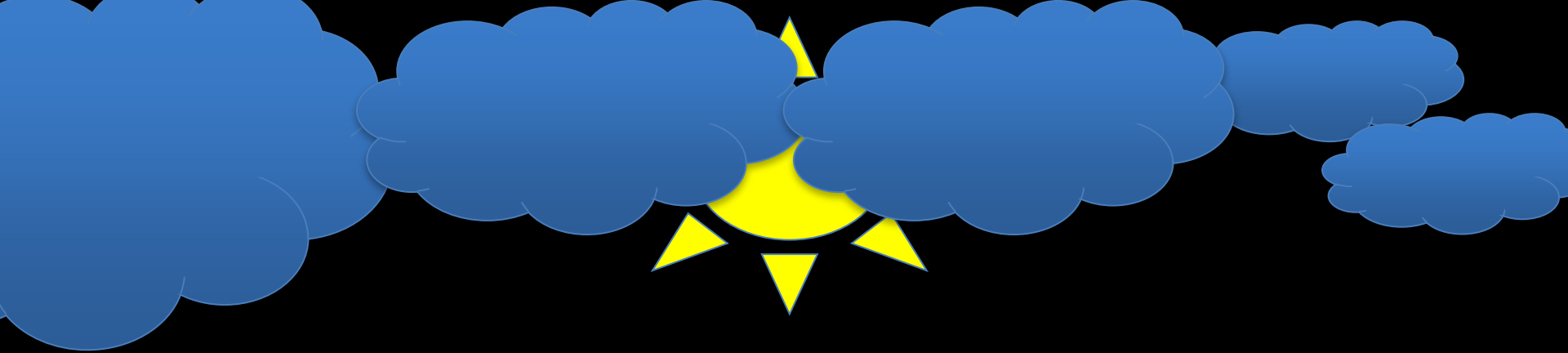


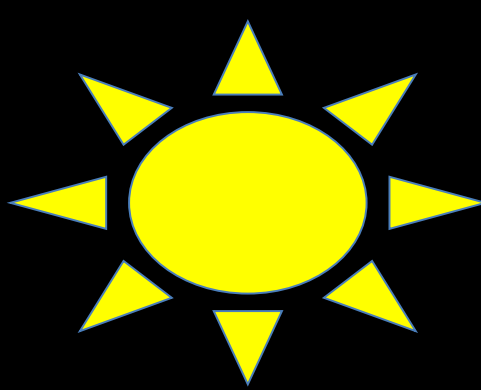
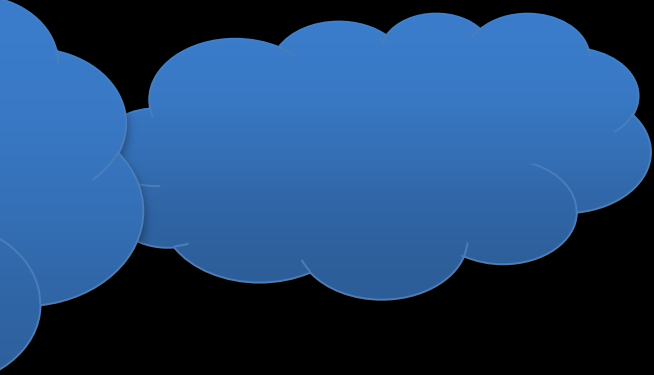


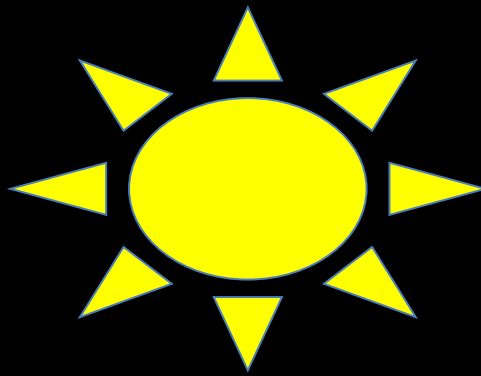
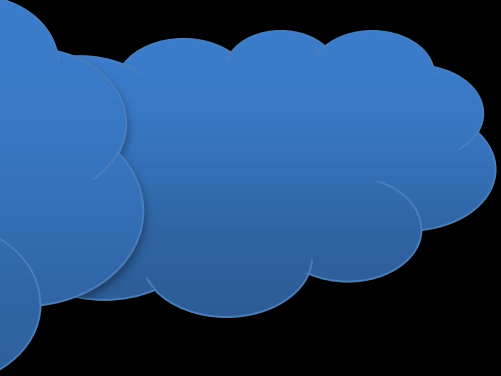
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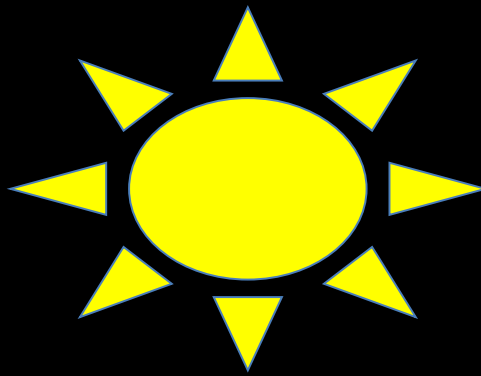
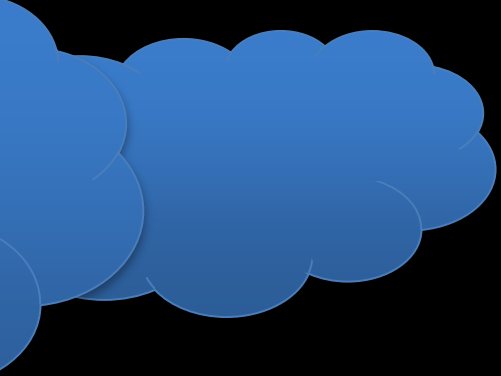
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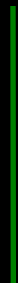
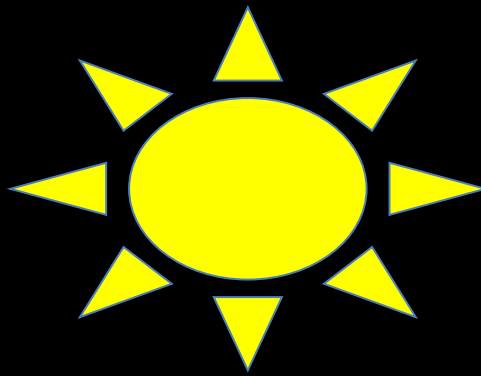
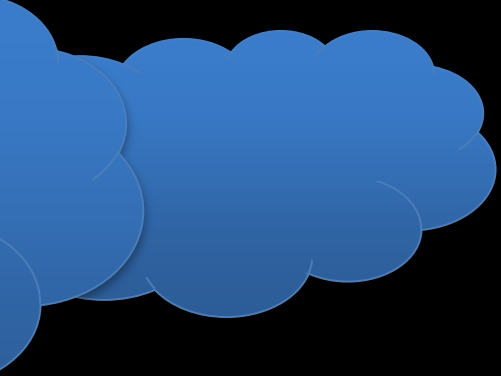
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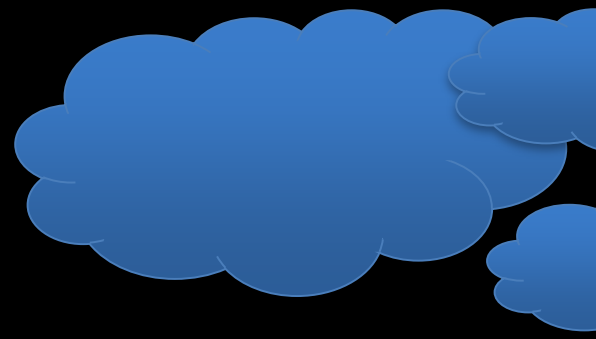
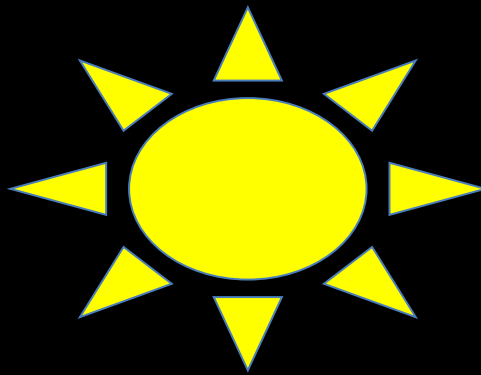
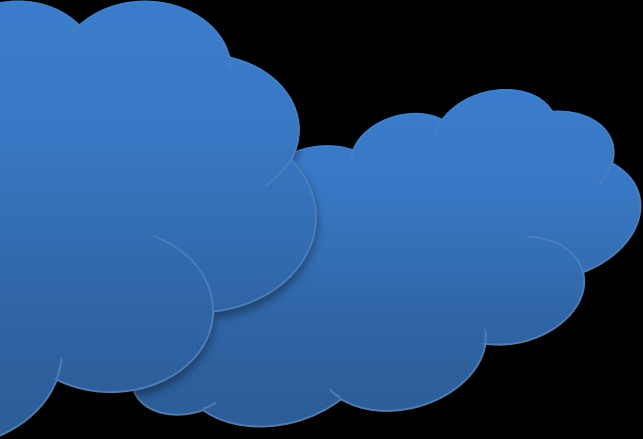


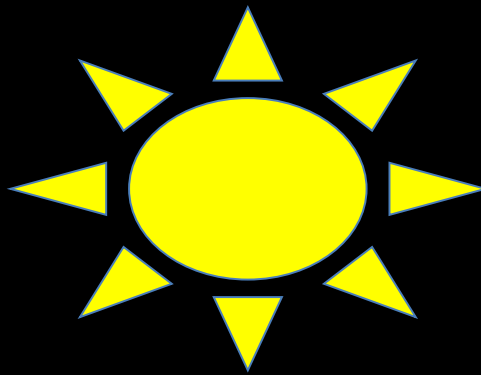
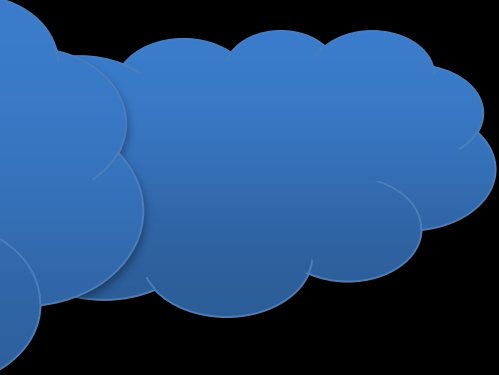


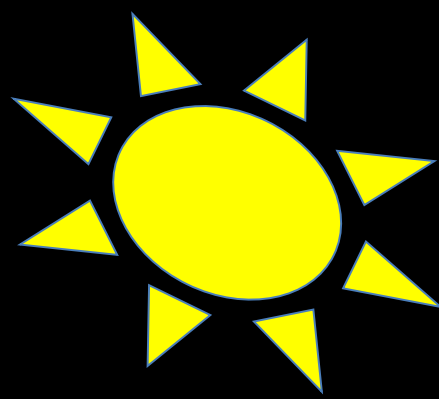
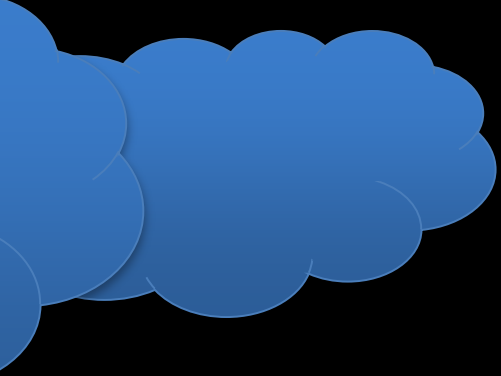


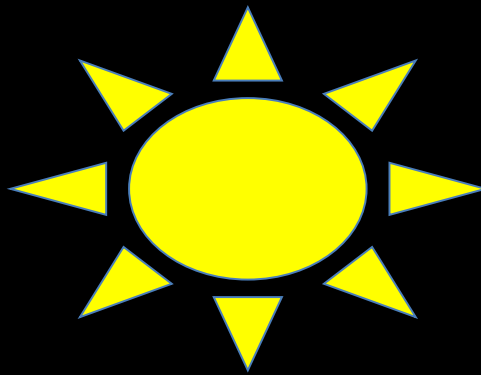
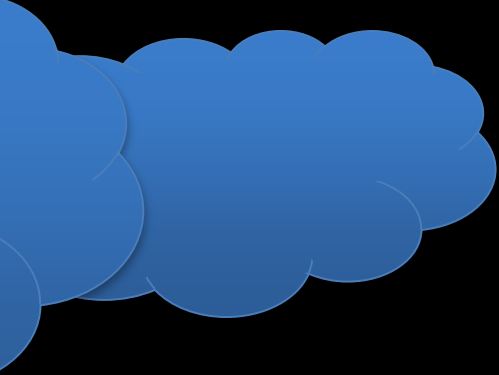


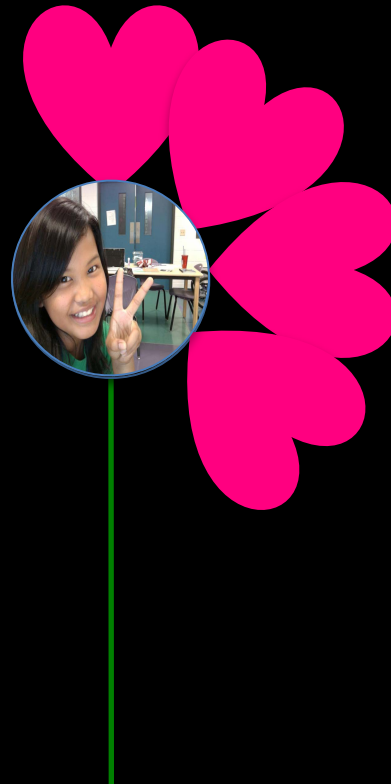
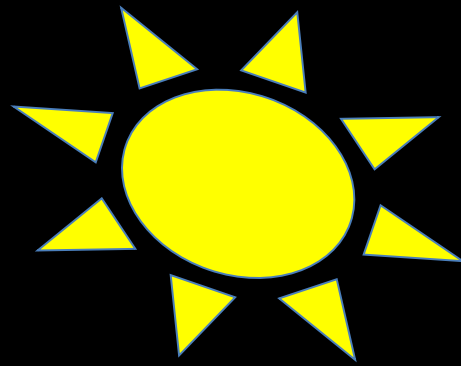
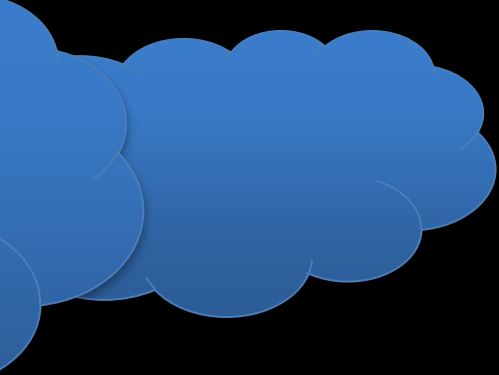


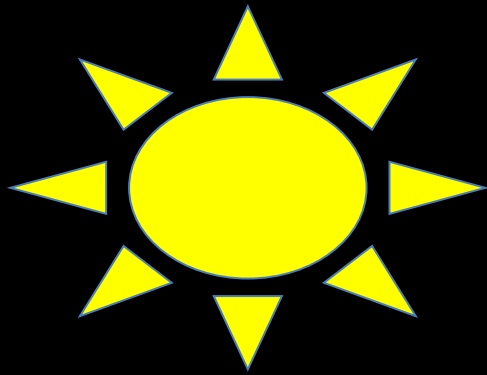
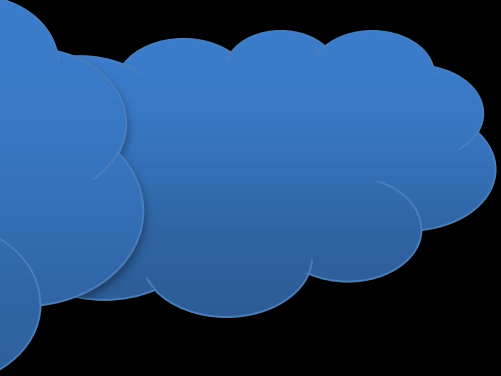


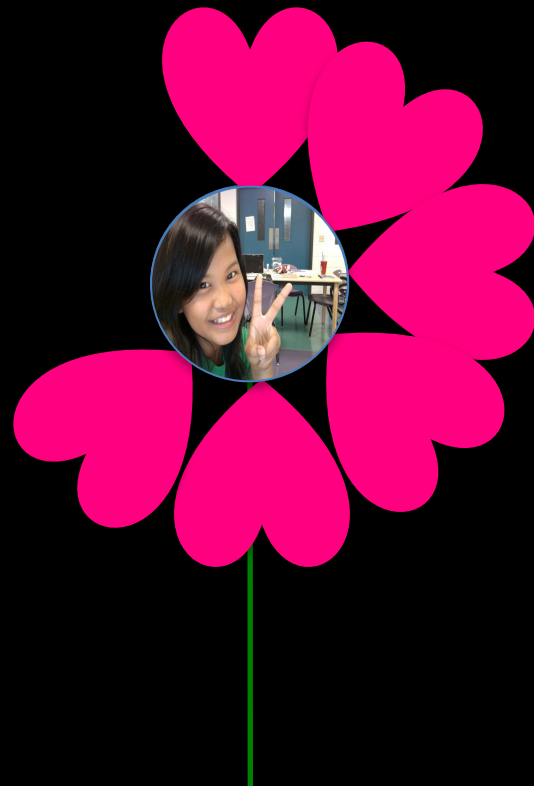
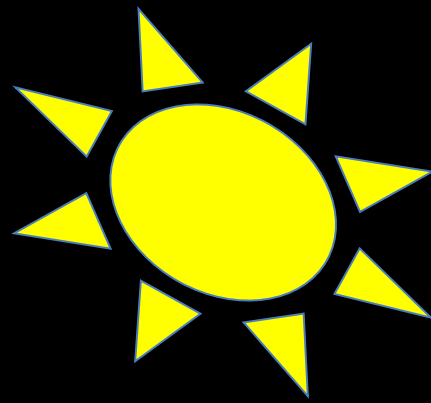
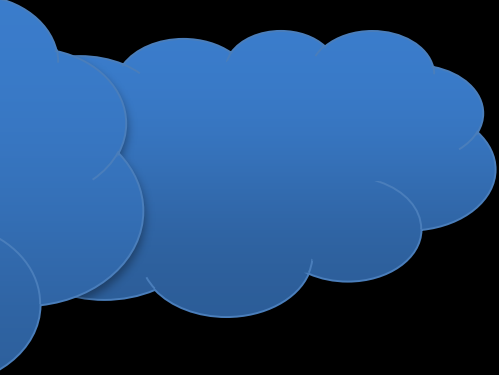


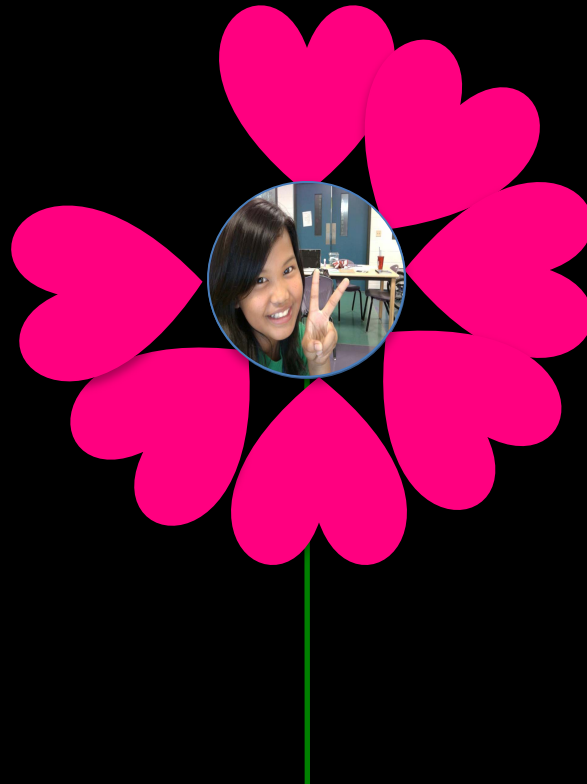
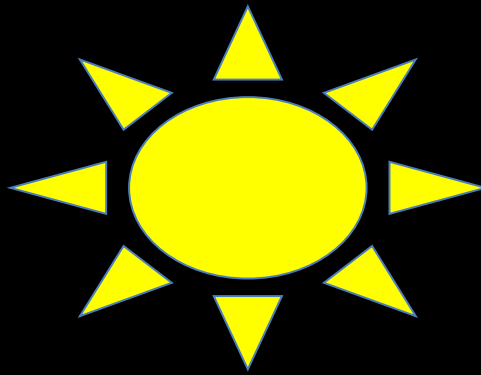
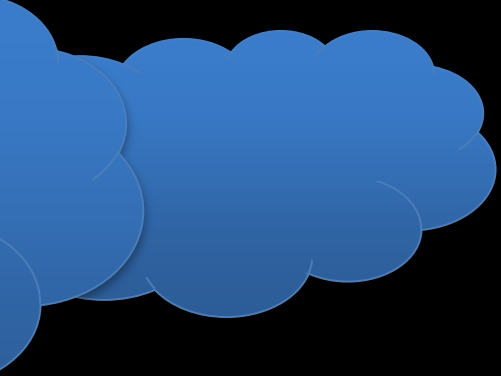


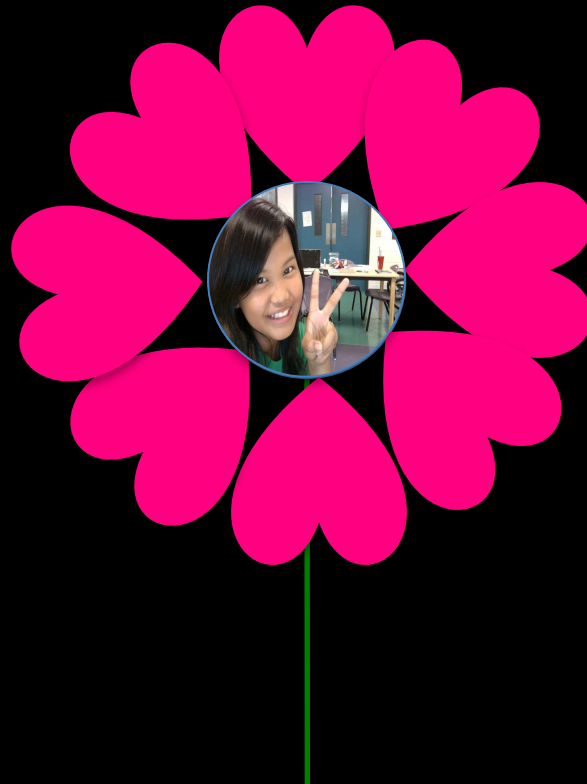
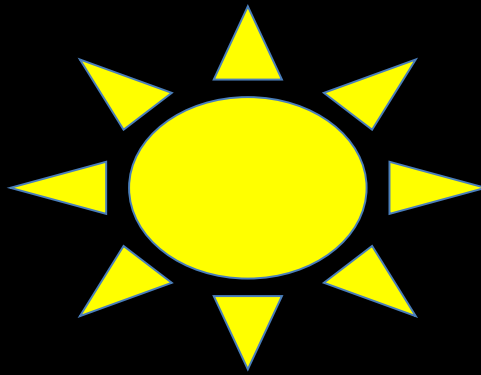
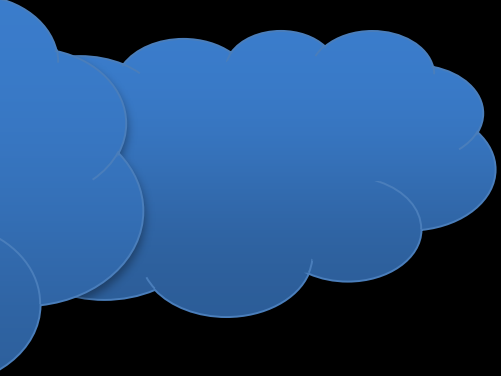


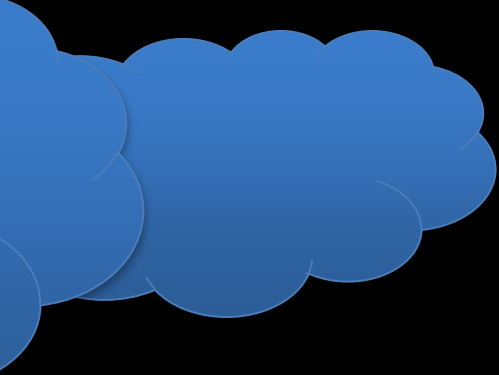
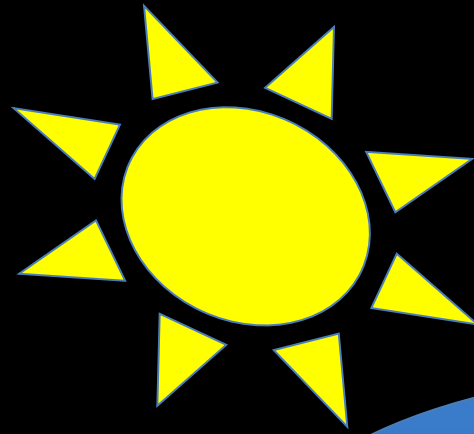




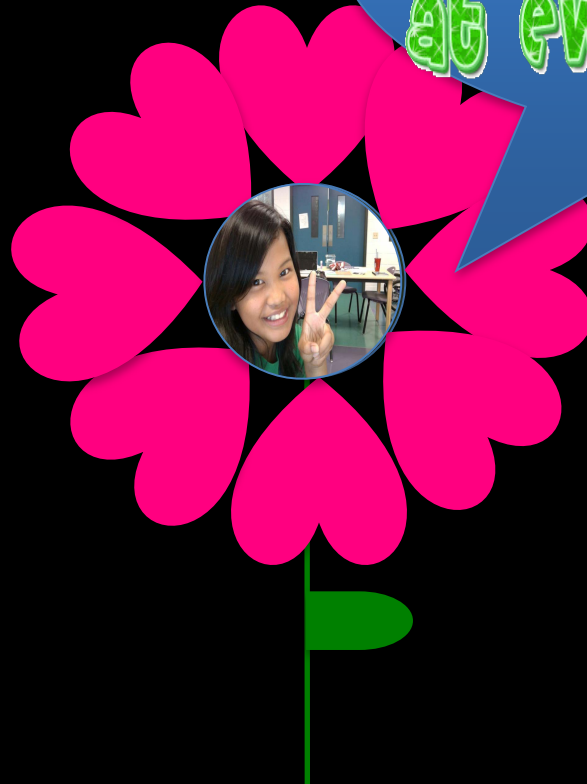


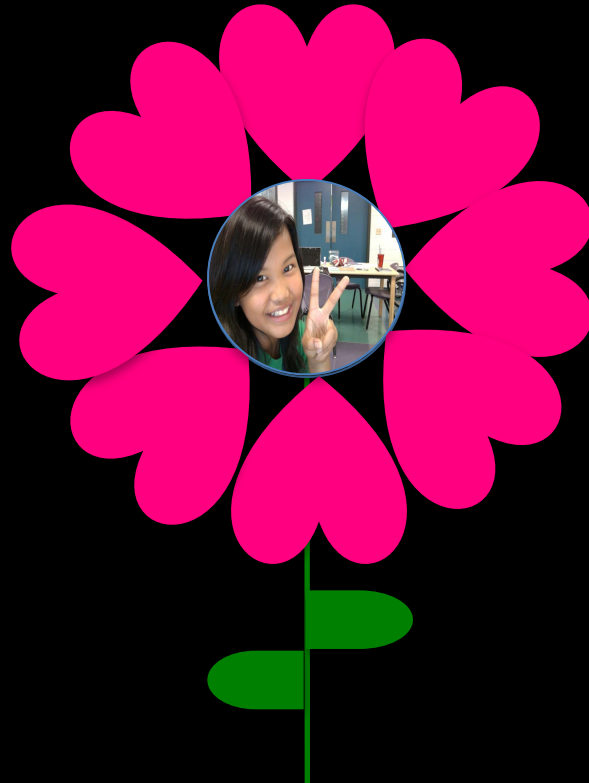
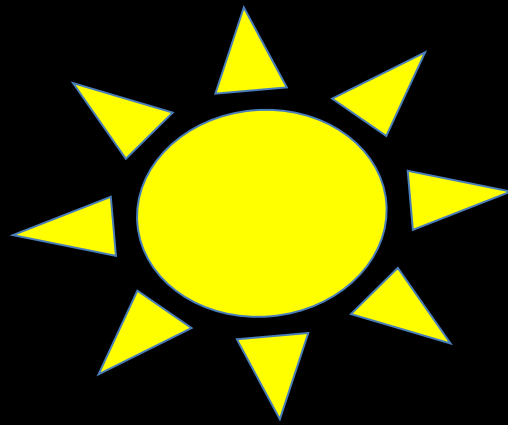


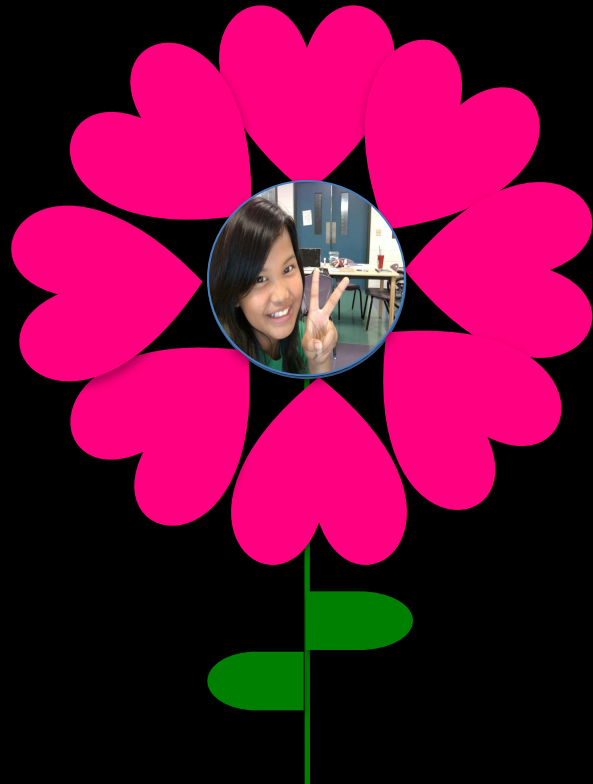
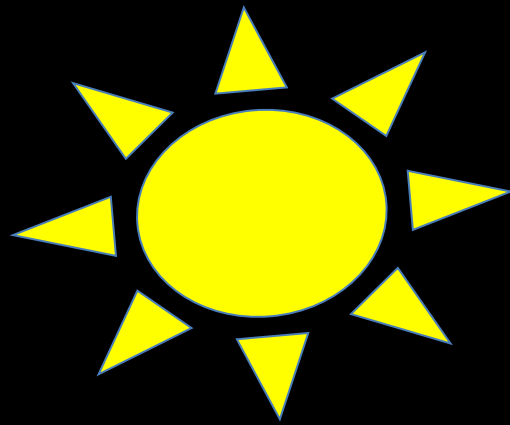
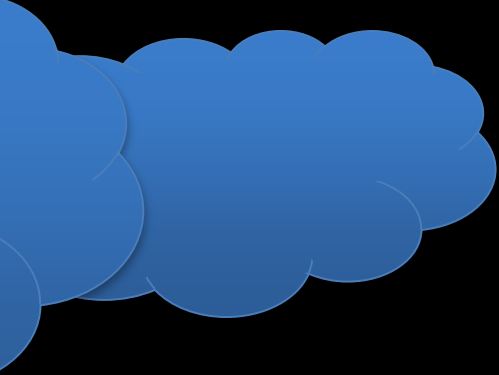


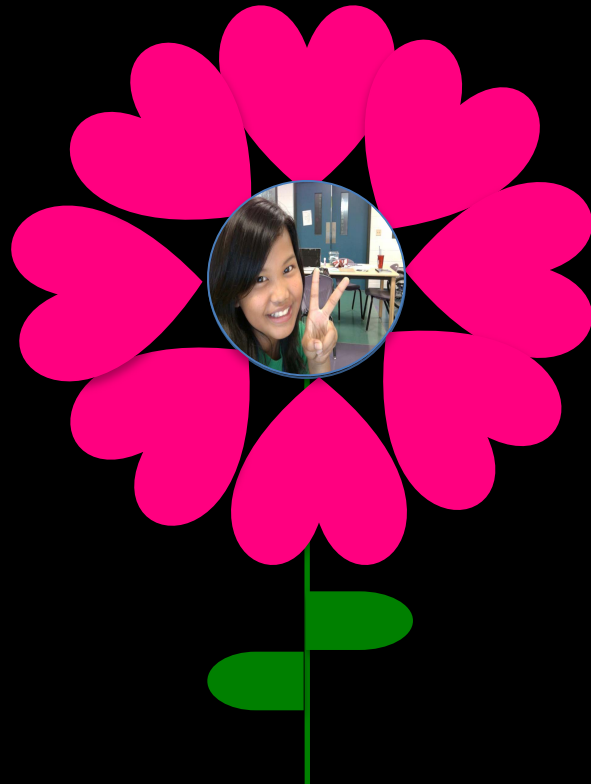
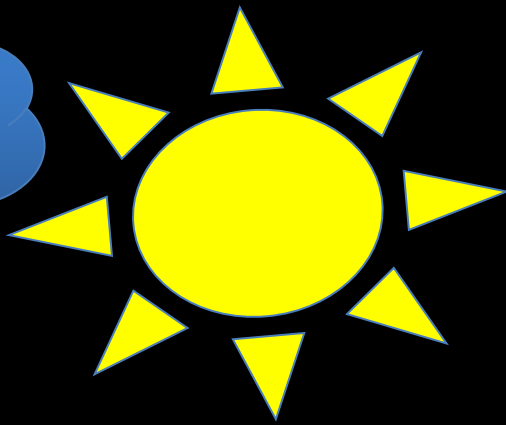
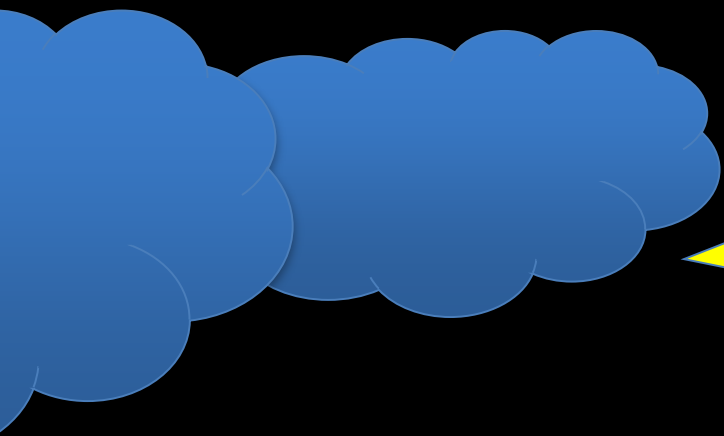


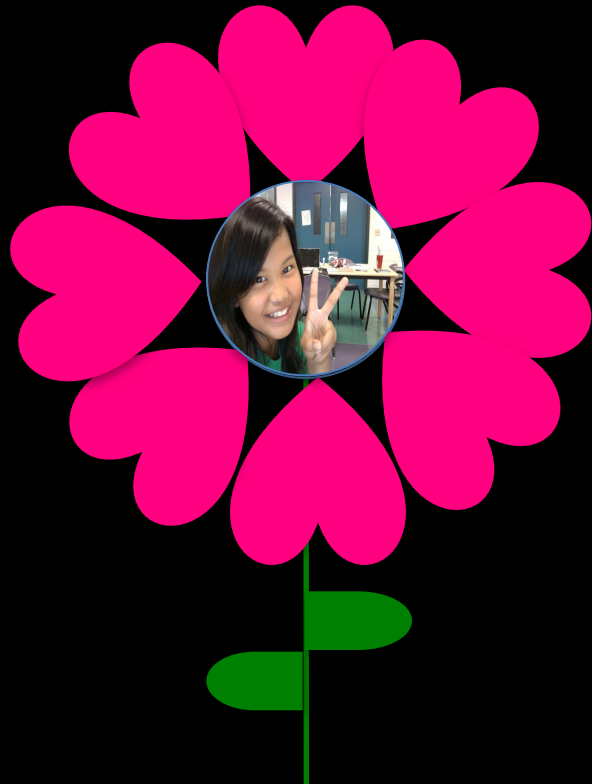
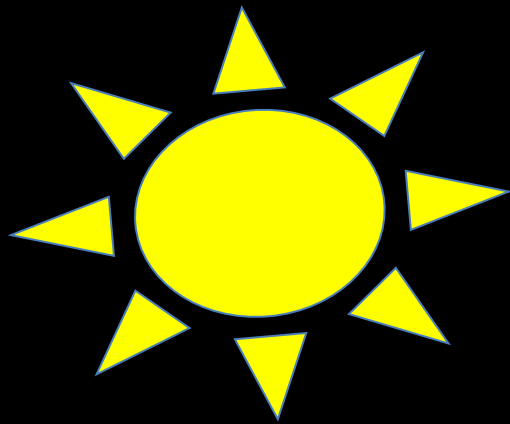
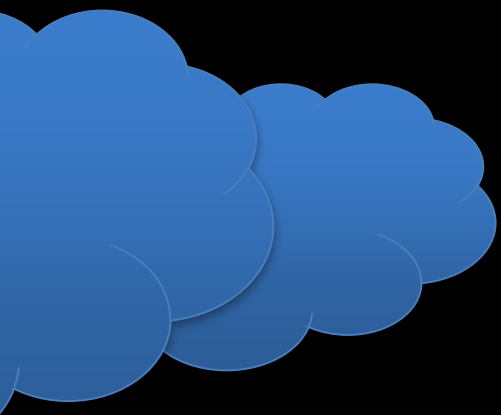
WELCOME TO
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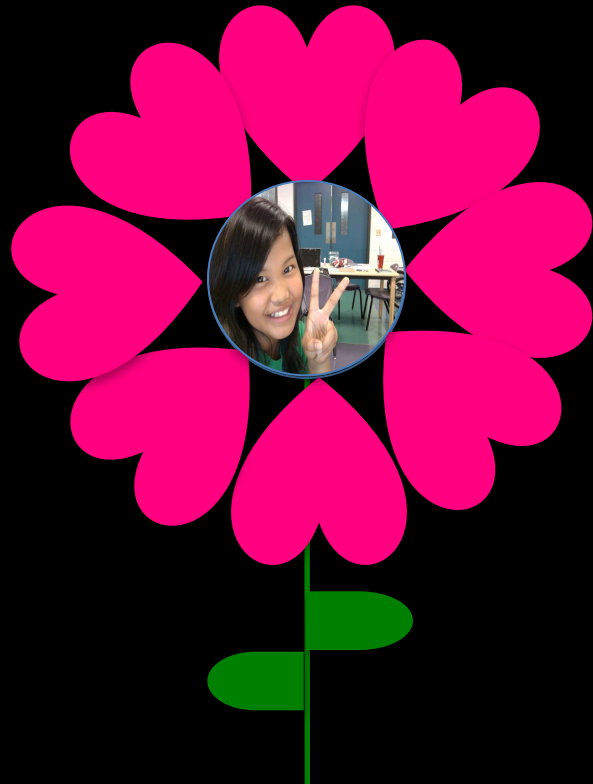
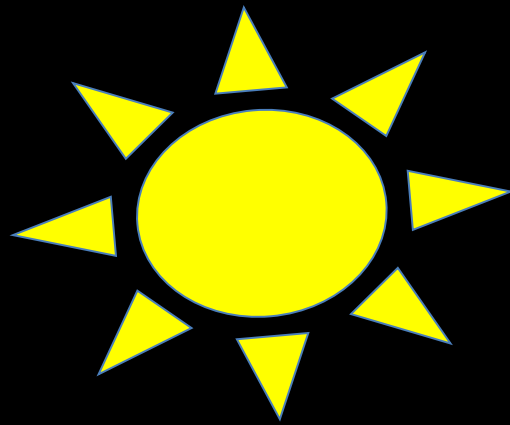
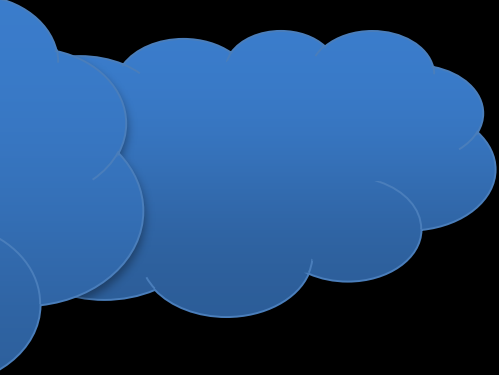


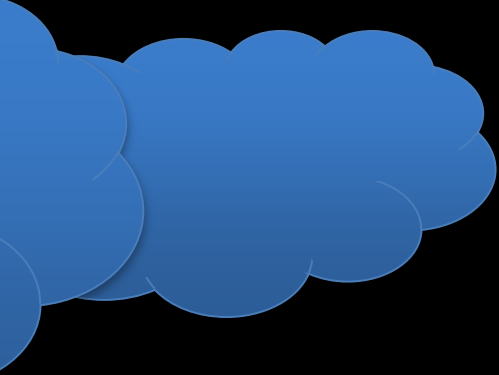
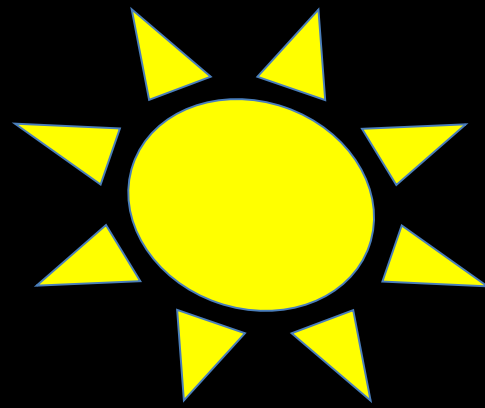




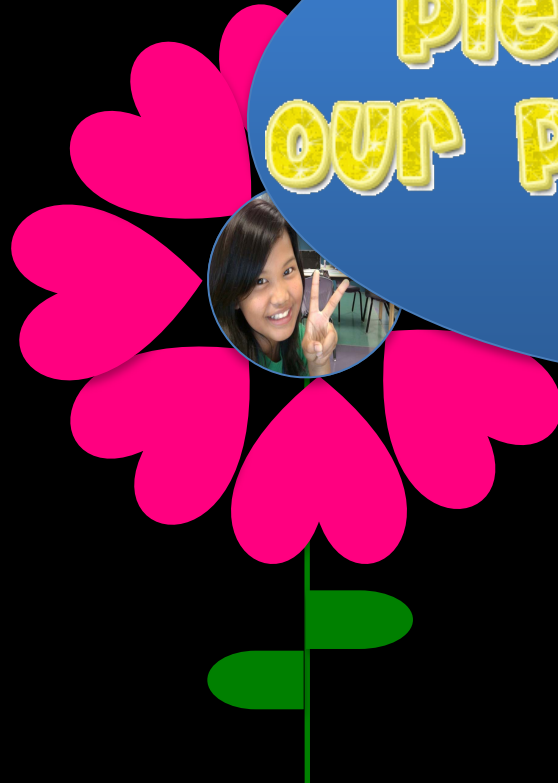


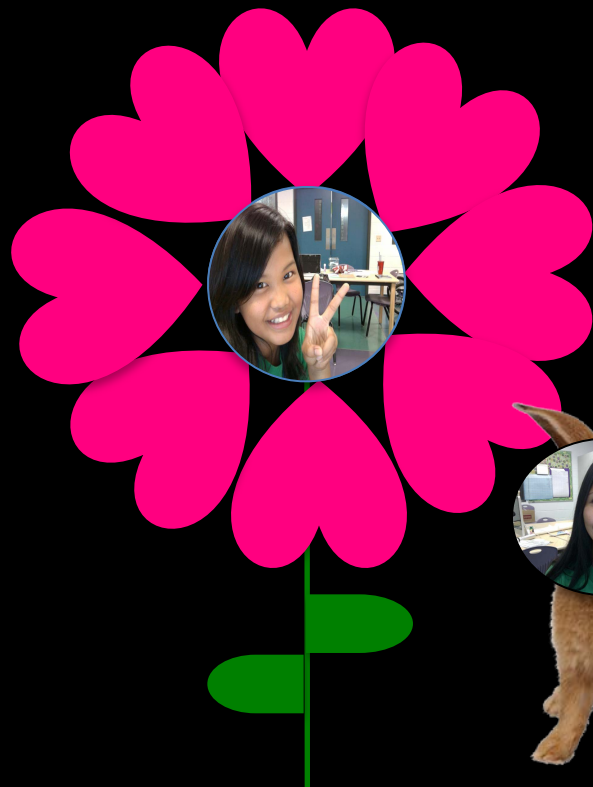
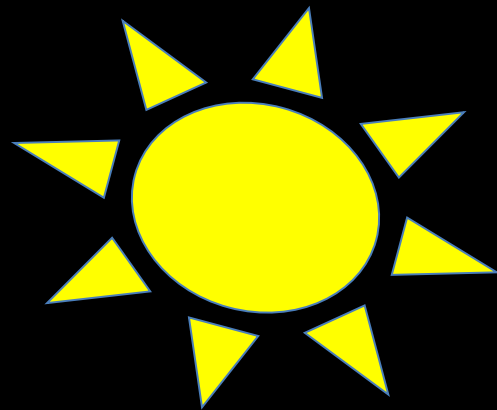


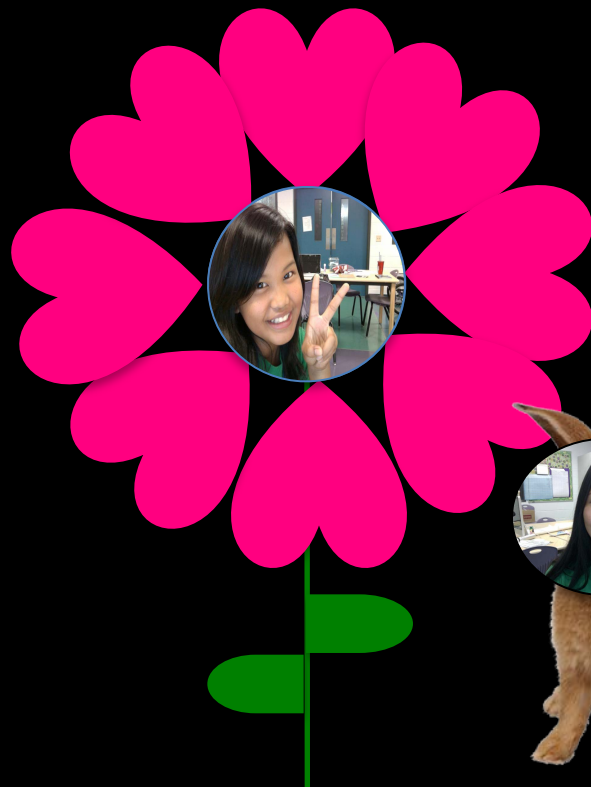
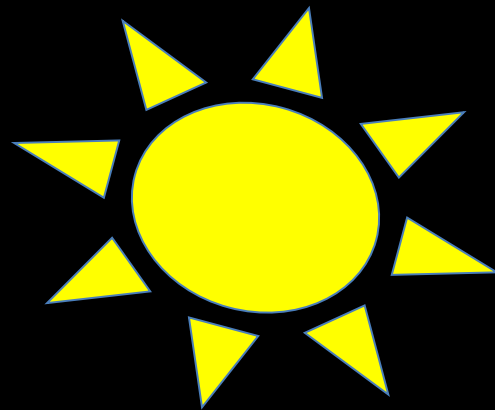


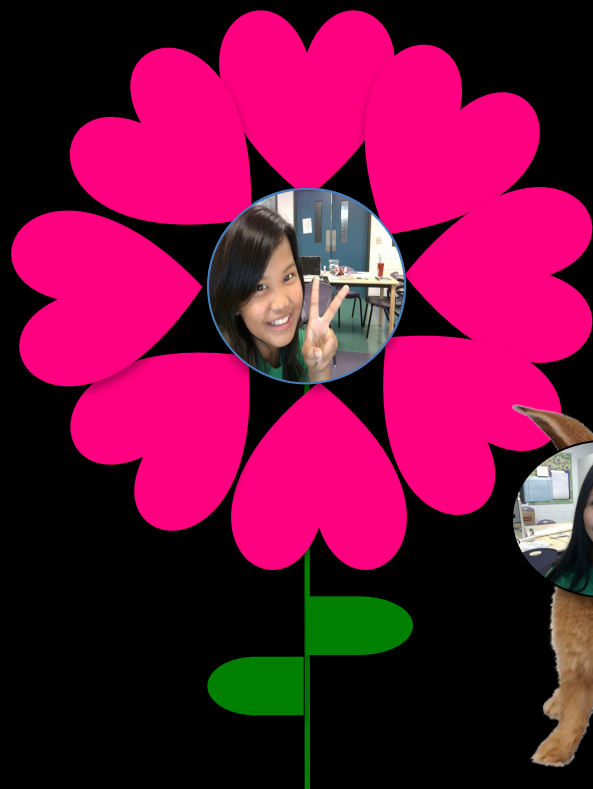
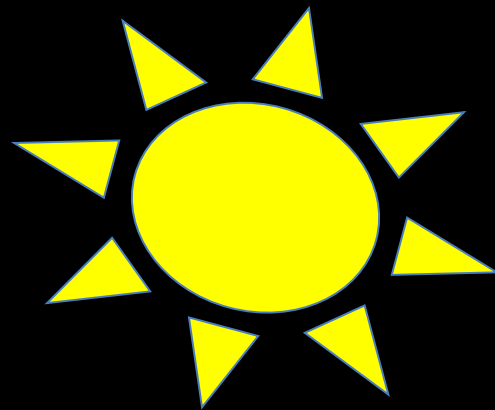


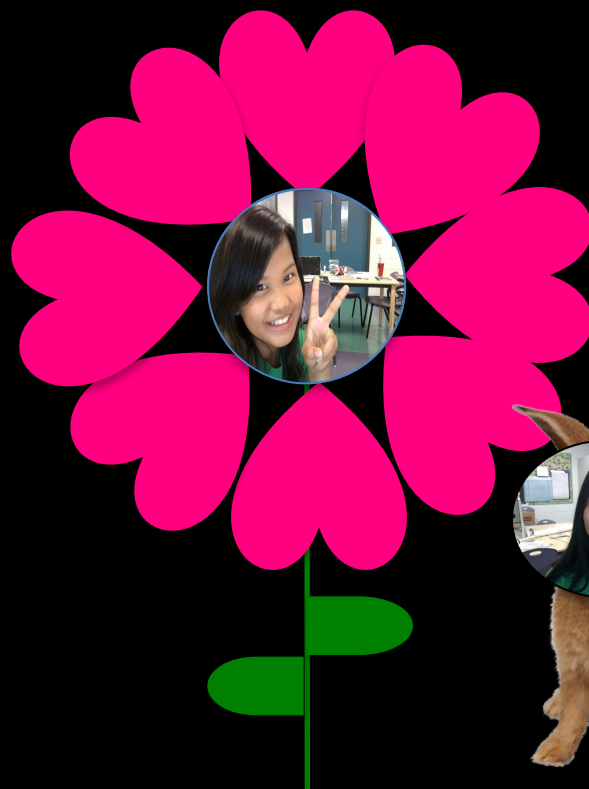
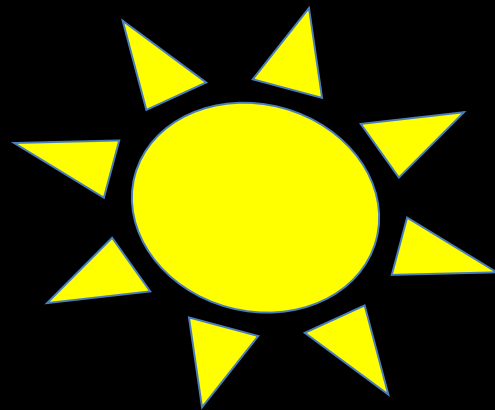
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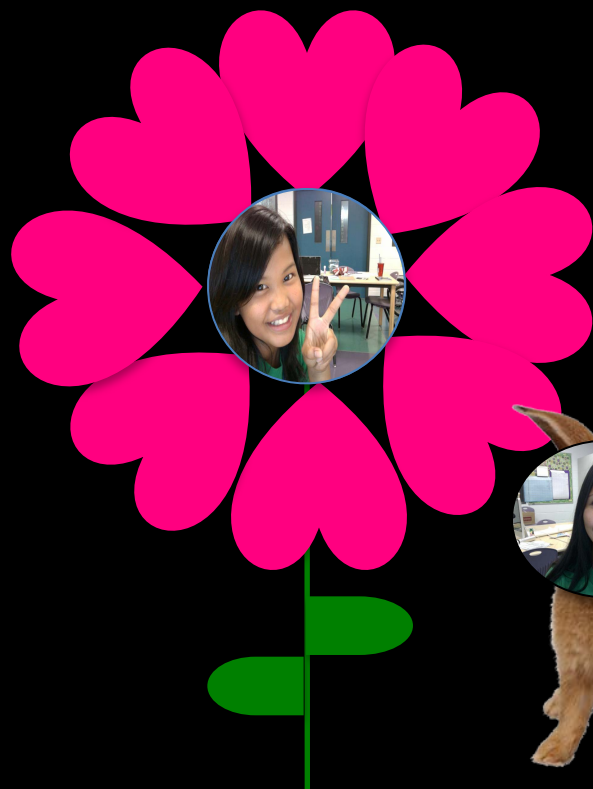
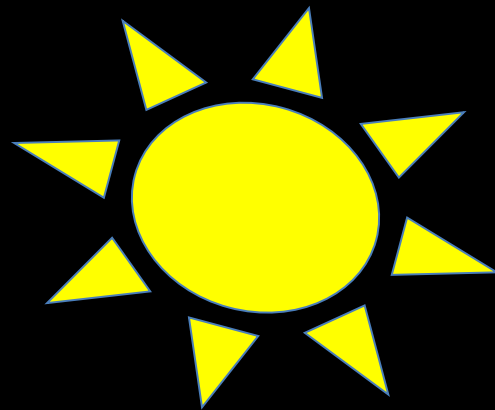


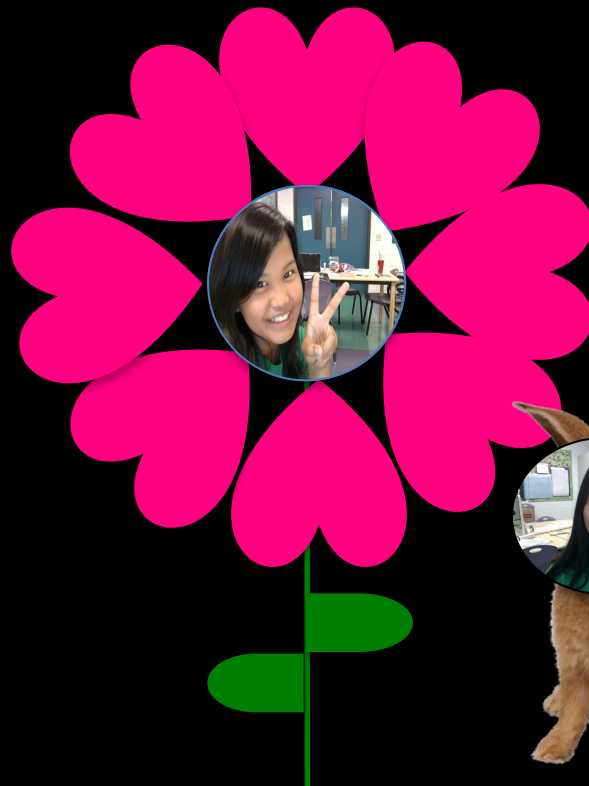
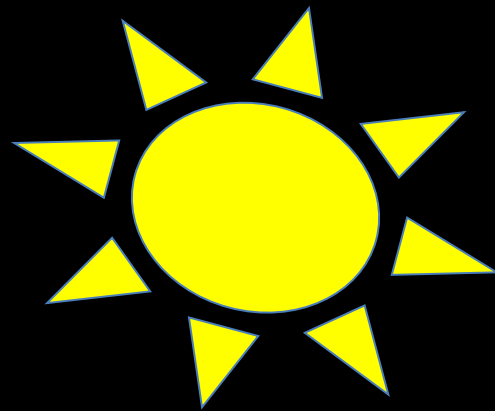


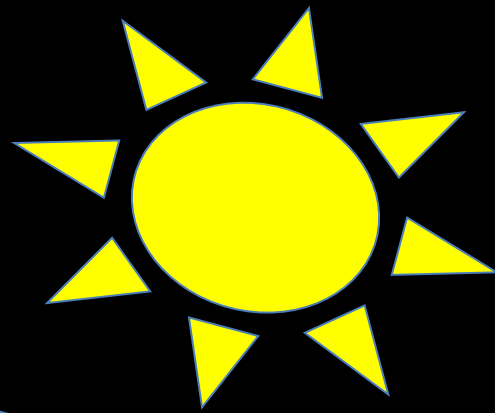












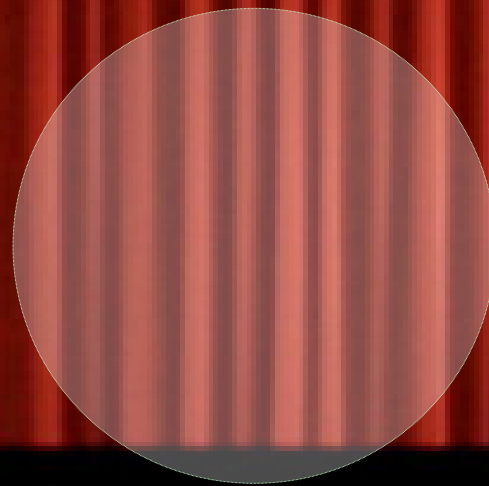
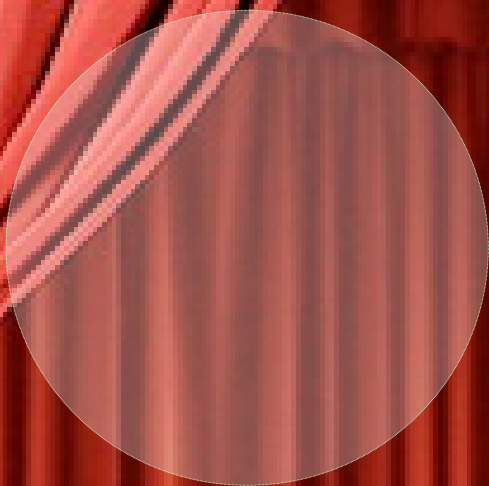
BUT FIRST LETS
MEET OUR
TEAM OF
PRESENTERS

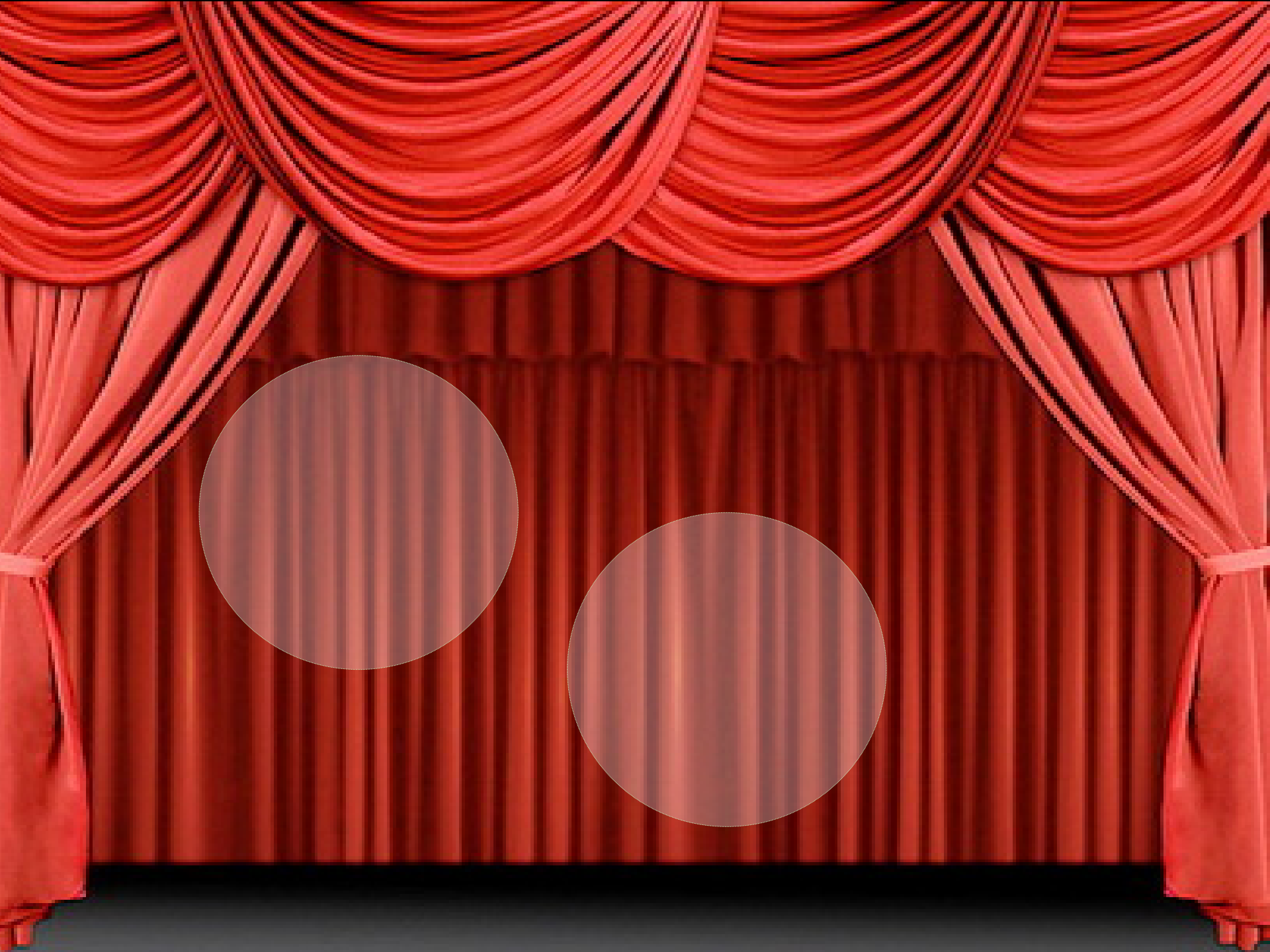


INTRODUCING

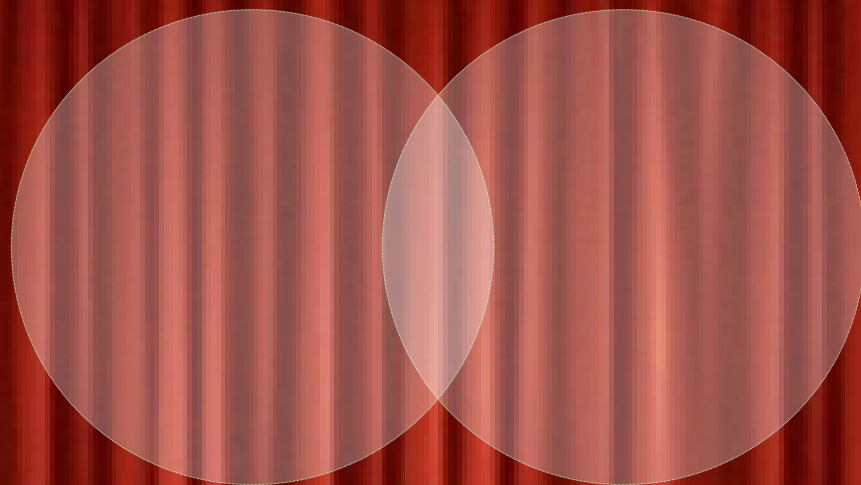


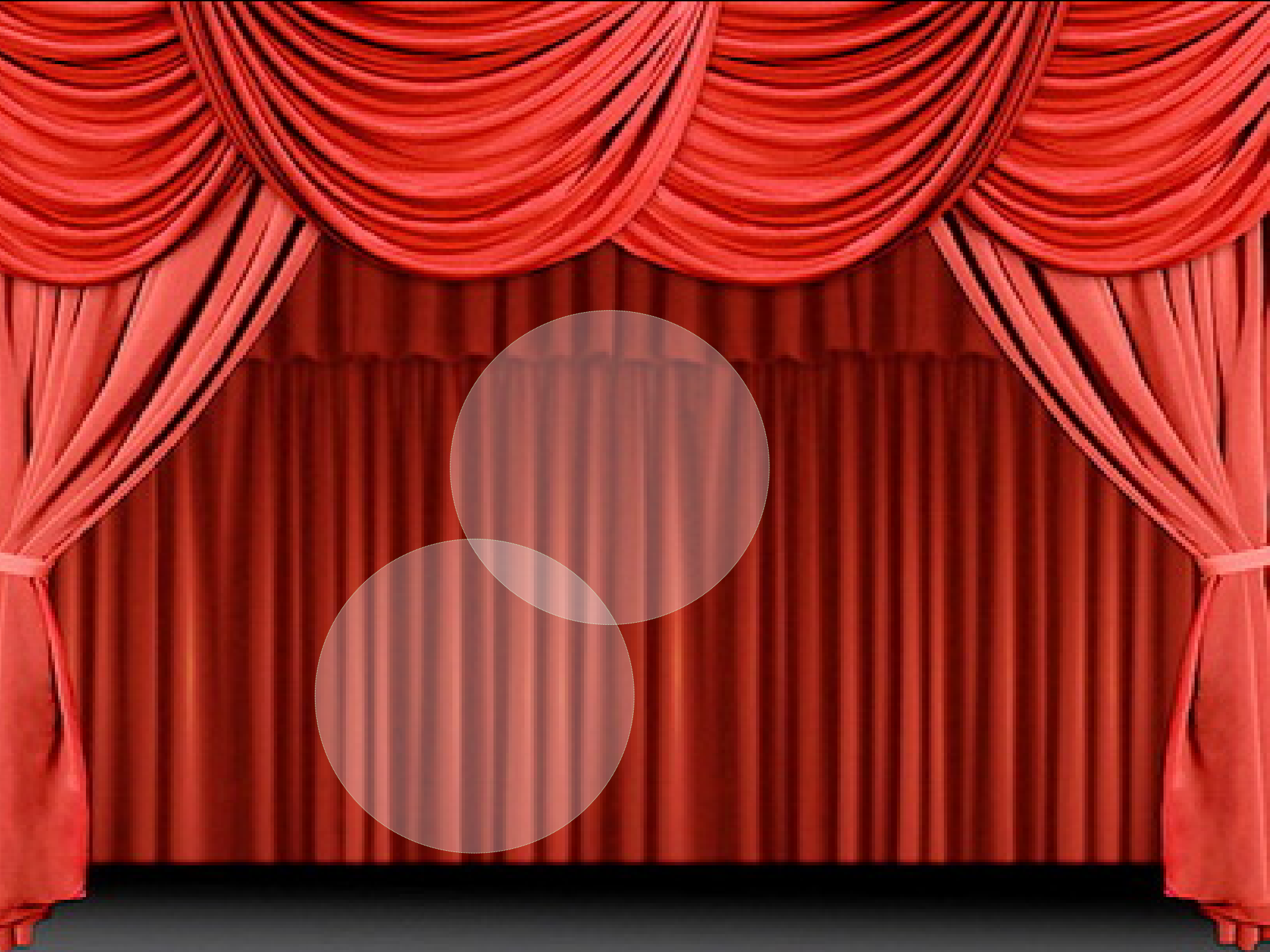
INTRODUCING



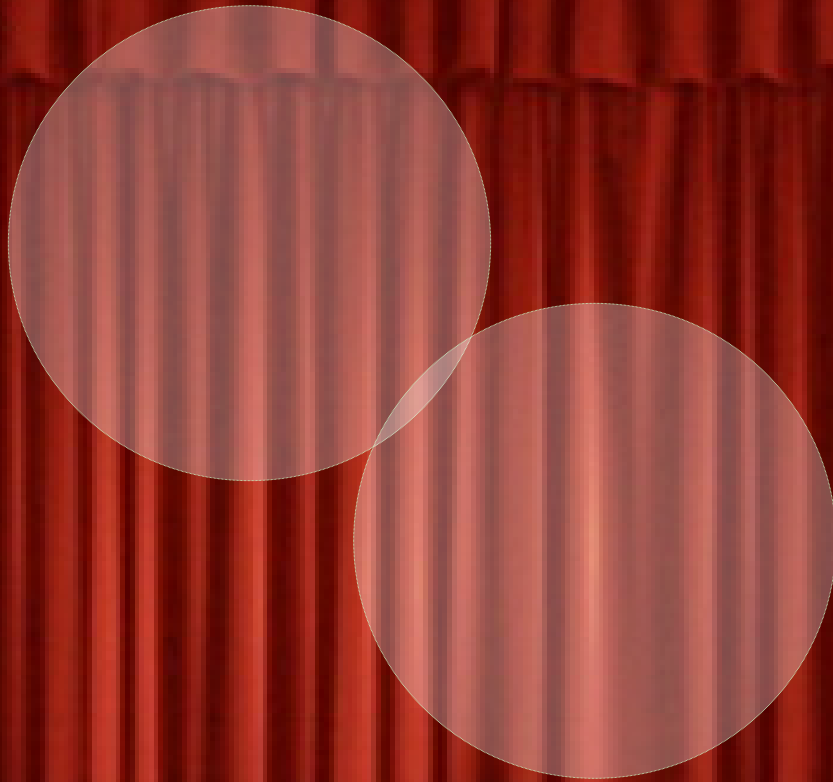


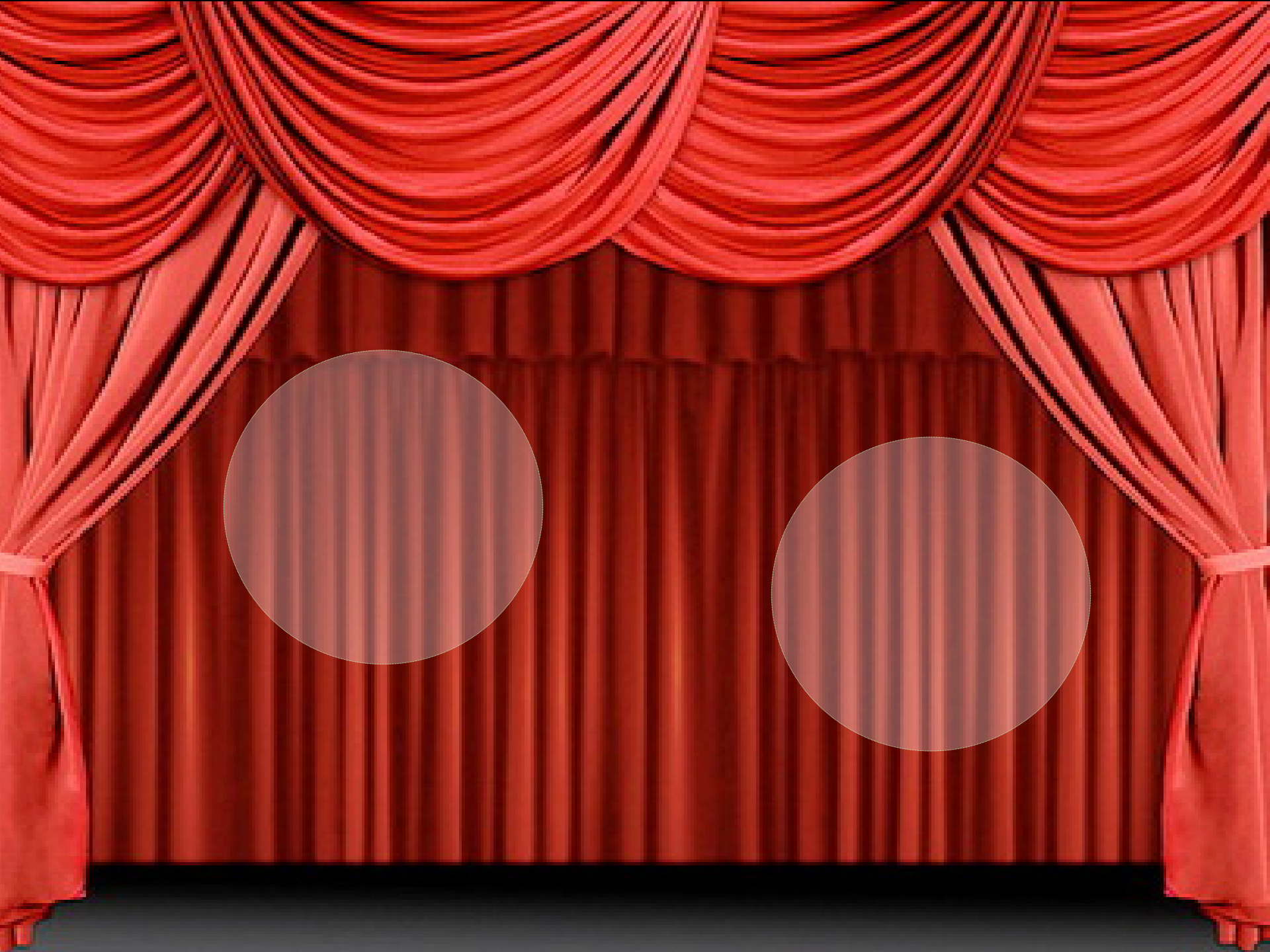
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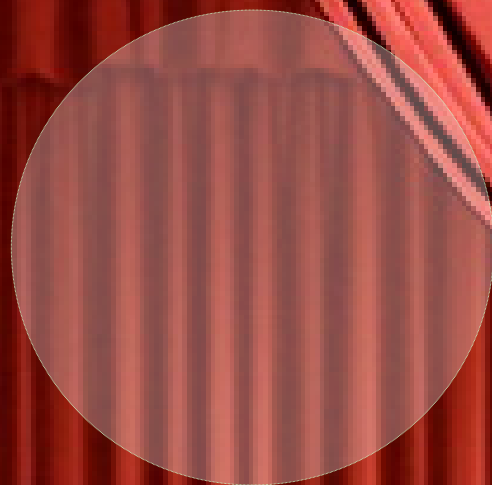
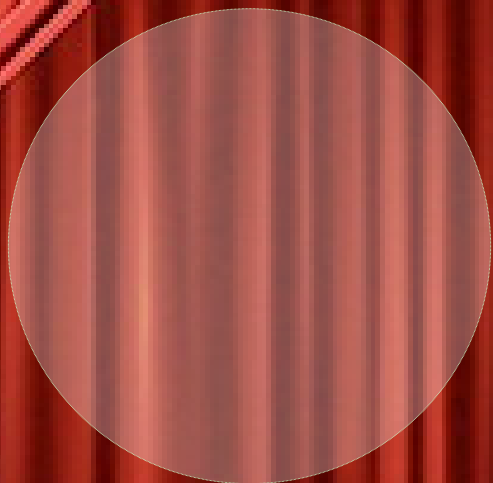


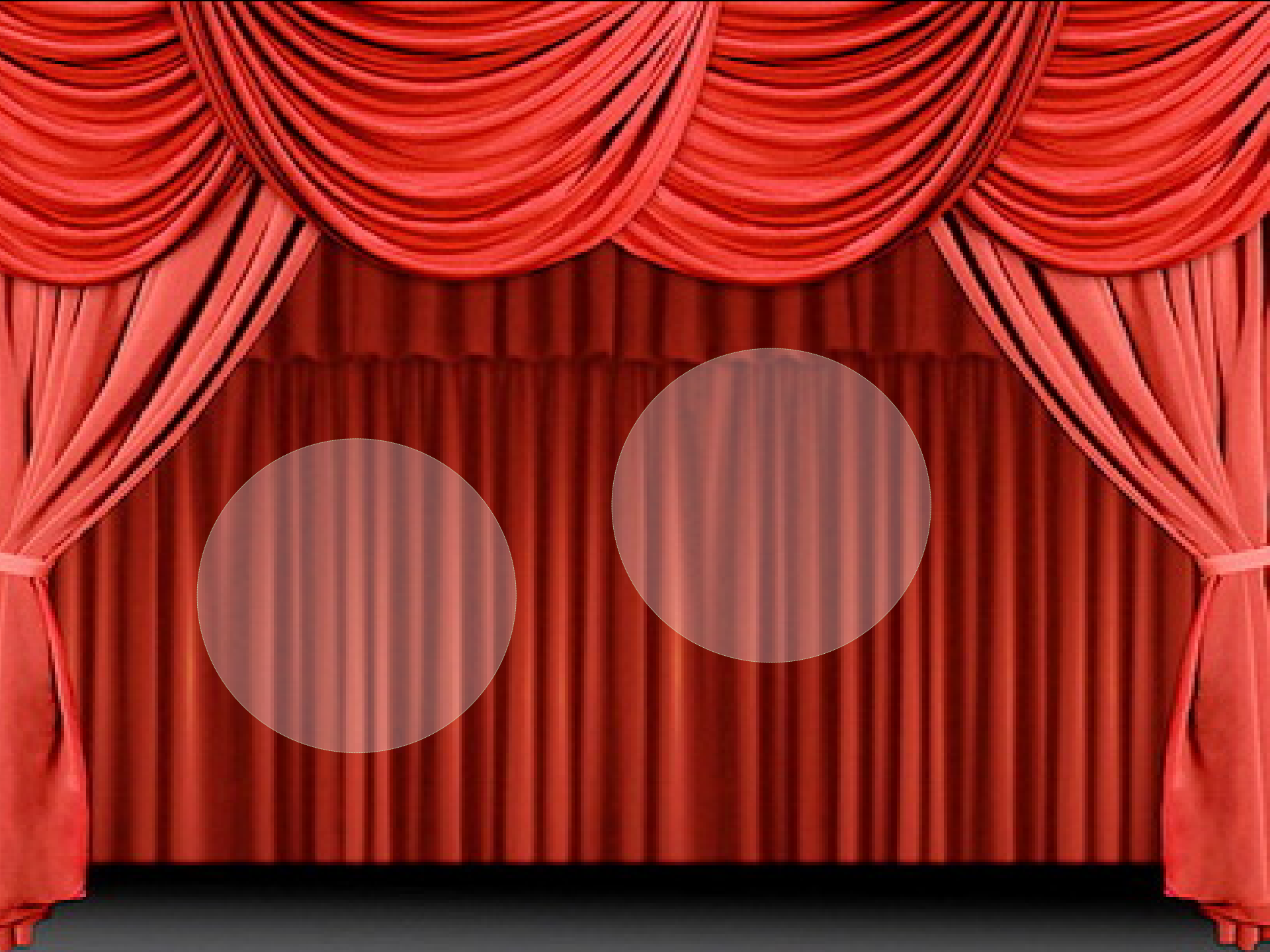
INTRODUCING



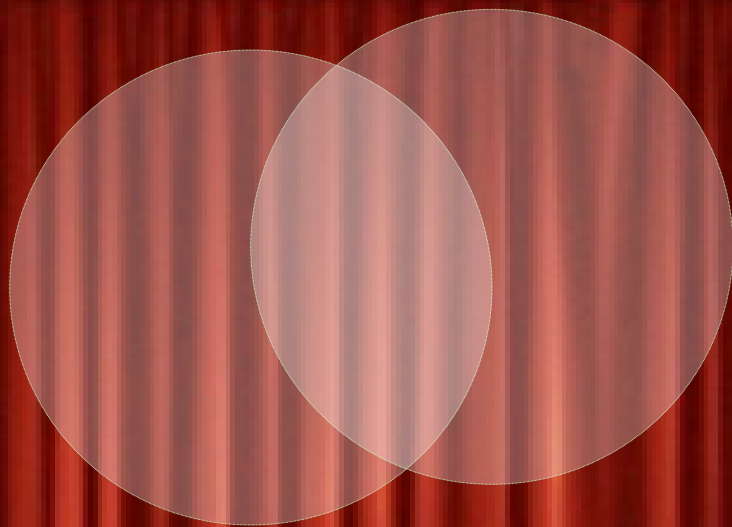


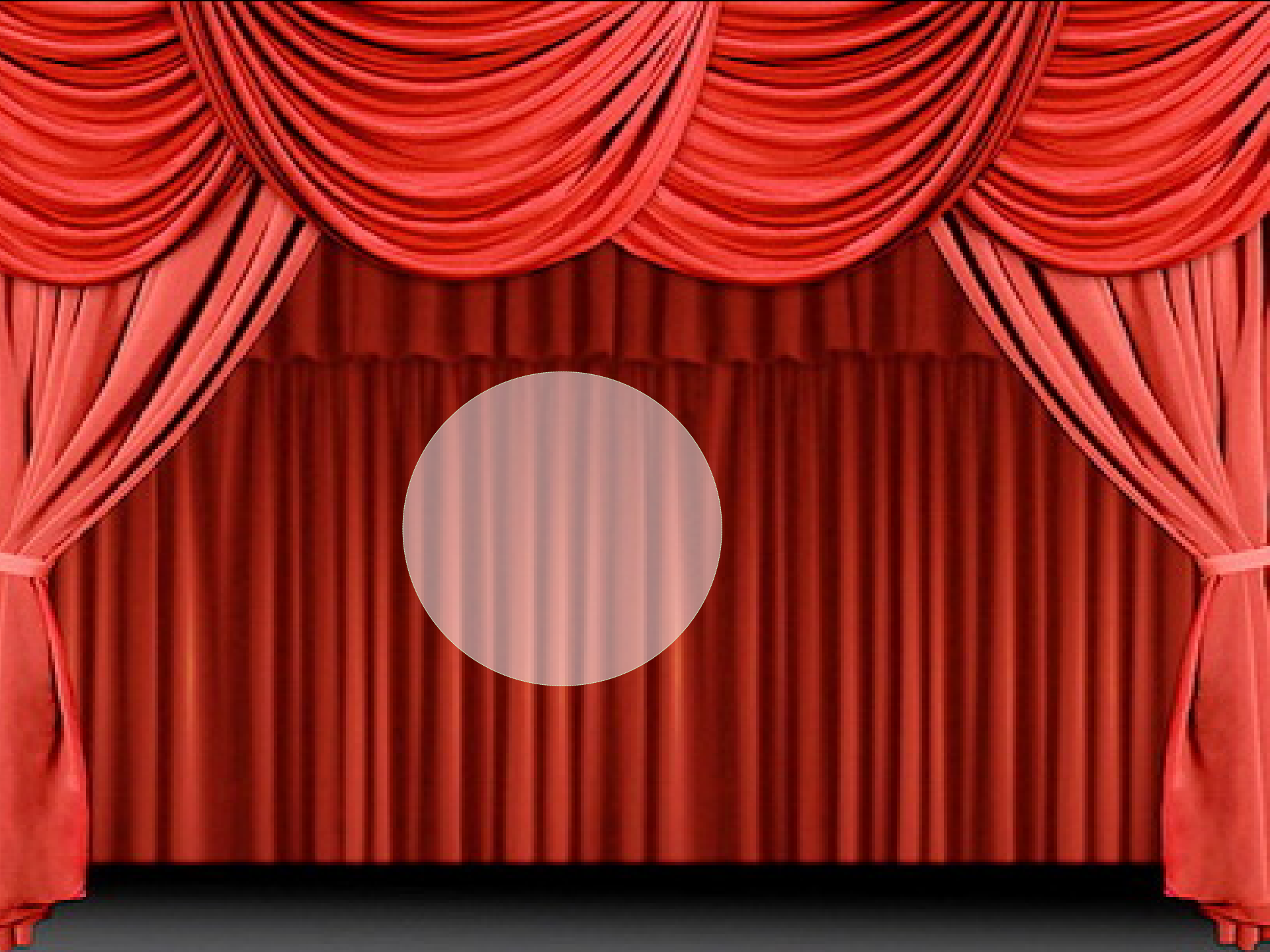
INTRODUCING



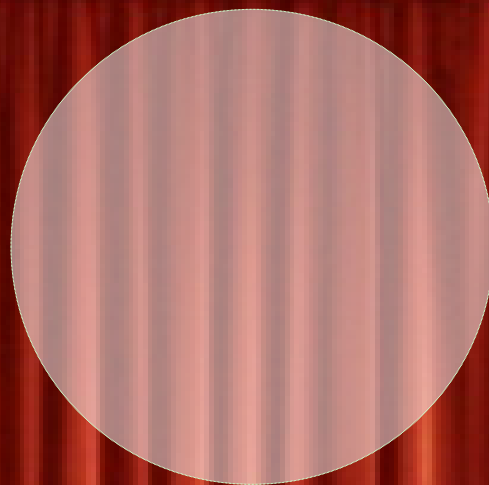


INTRODUCING





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INTRODUCING EMMS LEADERSHIP TEAM



McEl



Daylin



Kathyrine



Cami



Arianna



Rebekah



Preslyn



Tristen



Arielle



Justyn



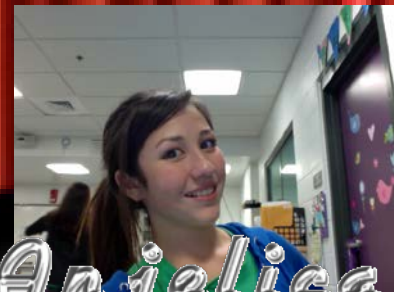
Kaylee



Jocelyn




Alice



Anjelica

INTRODUCING

The image shows a stage with red curtains. The top part of the curtains is draped in a scalloped pattern, while the rest are pleated. The word "INTRODUCING" is written in large, bold, blue letters with a white outline and a slight shadow, positioned at the top center of the image.

INTRODUCING

Ms. Kealoha

her
favorite
color is

RED



she
likes

sewing,
playing golf,
walking her
dogs.

named opihi
and haupia

INTRODUCING

her
Occupation
is
student
Activity
Coordinator

Ms. Kealoha



her
favorite
food is
spaghetti

she likes the quote
if can, can...
if no can, no can

INTRODUCING

INTRODUCING

Welcome to Ewa Makai Middle

Build and Buy Green Conference

April 3, 2012



Agenda

2:00- Student Introductions and Ice Breaker
recycling Game-"Sort It Out"

2:10- Green Initiative Presentation with Daylin
and Justyn

2:20- Green Initiative Video 2

2:35-Jeopardy Game with Green Initiatives
Trivia

2:50-Q&A

Our Green Initiatives

Vermi-Composting (Worm Bins)

School wide Recycling Every Thursday (N-CC-C, HI-5, # 1 and #2)

Organic Vegetable and herbs garden

Aquaponics

Paperless Curriculum

E-Books

Color Cube Printer

Rain Barrels

Green Detergents and Soap

Hand Dryers

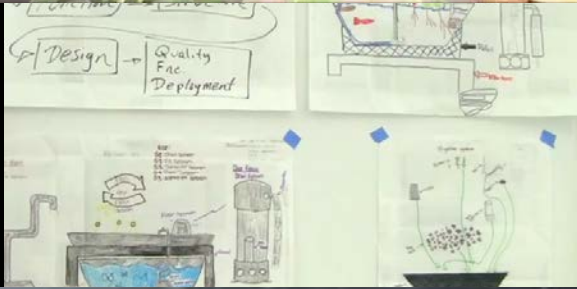
Use Recycled materials to make leis for honored guests

Made shopping bags out of used t-shirts

Sewed our own Mother's Day Gifts instead of purchasing them



Aquaponics



What is Aquaponics?

Aquaponics (aquaculture + hydroponics),
combining fish raising and production of organic
vegetables

Setting up an aquaponics system involves the
integration of animal husbandry, water chemistry
and microbiology, physics and engineering,
plumbing, and knowing enough to design the
system and select the equipment for energy-
efficient pumping and oxygenation

Aquaponics

Benefits:

Recycles water and nutrients

Uses 90% less water than ground crops.

Eliminates chemicals and pesticides.

Eliminates soil-bourne diseases.

Is a sustainable source of fish and vegetables at your back door.

Vegetables can be organic from day one, instead of waiting several years to certifiy land where herbicides, pesticides and non-organic fertilizers have been used.

Fish can be organic if natural biological feeds like soldier fly larvae or azolla are used as feed.



School Wide Recycling

How Does Our School Recycle?

Every Thursday a different homeroom recycles around the campus

Teachers and staff members sort their recyclables into green and yellow bins

Yellow bins are for Hi-5 and containers with #1 and #2 on the bottom

Green bins are for N-CC-C (newspaper, corrugated cardboard, and computer paper)

Students double check and resort materials before loading them into blue rolling carts

Finally, all sorted recyclables are placed in the multi-material containers in the parking lot

School Wide recycling

Benefits:

Reduces the waste that is normally produced in other schools

Teaches and encourages students and teachers to recycle appropriately

Money earned is used to purchase much needed school supplies for those in need

Students and staff continue to teach and practice recycling beyond the walls of Ewa Makai Middle



Ewa Makai's Organic Garden



Student Created Garden

We used recycled materials that were donated (wood, potting soil, metal framing, paint, seedlings and green screen)

Students built and painted raised garden beds.

They also soaked and planted seeds.

We water and harvest plants daily.

Organic Garden

Benefits:

Organic vegetables and herbs used in our school kitchen to feed students

Reduces packaging, fuel, and food imports

No harmful preservatives or pesticides

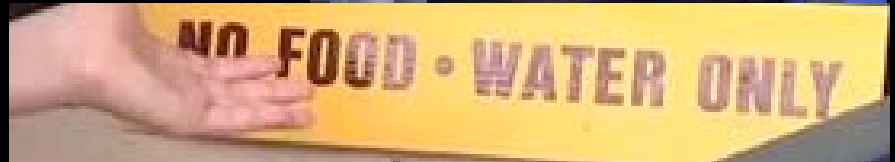
Vermicast nurtures plants instead of toxic fertilizers that contaminates our bodies



Protopods



Worm Bins



What is Vermicomposting?

Processing organic waste with worms - called VERMICOMPOSTING - transforms garbage into a nutrient-rich, odorless, pathogen-free, organic soil amendment that dramatically enhances the health of houseplants, garden plants, fruit trees, landscaping, lawns, and agricultural crops.

Worm droppings, also called *black gold* or VERMICAST, recycles nutrients back to the soil as nature intended. Vermicast is easily produced and harvested from a homemade worm bin.

Vermicomposting

Benefits:

- improve soil structure, aeration, and water retention
- contribute to soil fertility
- promote healthy root development
- increase organic content of the soil
- produce better-tasting fruits and vegetables
 - produce healthier, more disease and pest resistant plants



Paperless Curriculum

Student
Activities

How is our Class Paperless?

Students create Power Points presentations instead of poster boards

We announce bulletins and events online instead of printing announcements

We send our assignments to our teachers as attachments through email

We use our computers to organize and plan events instead of notebooks and folder paper

We refer to our school or class websites to gain information instead of flyers

Paperless Curriculum

Benefits:

Trying to prevent paper use in classes

Saves trees, paper, printer ink and money

Students learn to use technology more
efficiently

More of Ewa Makai's
“Green” Facilities....



Bathroom Facilities



Light Shelves



Pervious Concrete



SPECIAL THANKS TO...



city and county

<http://kokuahawaiifoundation.org/>

<http://www.opala.org/>



waikiki worms

<http://waikikiworm.org/>

FOR FUNDS TO MAKE
EWA MAKAI MIDDLE
A GREEN SCHOOL