

Game details



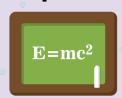
How-to-play



Learning objectives

- Remembering: Recognizing, recalling
- Understanding: Interpreting, classifying, summarizing, inferring, comparing, explaining
- Applying: Executing, implementing
- Analyzing: Differentiating, organizing, attributing
- Evaluating: Checking
- Creating: Generating, planning, producing

Topics



- Counting & Cardinality
- **Operations & Algebraic** Thinking
- Measurement
- Geometry



Organisms

Ecosystems

Earth

Flutter curriculum standards

Grade level	parate Standards for Mathematics (corestor	Domain code	Standards	Equivalent game mechanics
K	Counting and Cardinality	K.CC	Know number names and the count sequence.	Petal trackers are numbered from 0 to 21
K	Counting and Cardinality	K.CC	Count to tell the number of objects.	Counting matching and mismatched petals
	,			Compare how many petals you have on your tracker to
K	Counting and Cardinality	K.CC	Compare numbers.	how many are required to play or enclose a tile
			Understand addition as putting together and adding to,	
			and understand subtraction as taking apart and taking	Matching petals are added to your tracker, mismatched
K	Operations and Algebraic Thinking	K.OA	from.	petals are subtracted
K	Number and Operations in Base Ten	K.NBT	Work with numbers 11–19 to gain foundations for place value.	Petal trackers go up to 21
K	Number and Operations in base Ten	K.NDI	value.	Different size tiles are worth different amounts of pollen
K	Measurement and Data	K.MD	Describe and compare measurable attributes.	points, each mathematically based on their size
			Classify objects and count the number of objects in each	Counting number of petals in each of 4 types and
К	Measurement and Data	K.MD	category.	counting the number of pollen points
			Identify and describe shapes (squares, circles, triangles,	
			rectangles, hexagons, cubes, cones, cylinders, and	Triangles and many other geometric shapes,
K	Geometry	K.G	spheres).	environmental relative positioning of tiles, shape rotation
K	Geometry	K.G	Analyze, compare, create, and compose shapes.	Tiles of different sizes, shapes, and colors; ability to use multiple tiles to model larger shapes
	deometry	14.0	Represent and solve problems involving addition and	Matching petals are added to your tracker, mismatched
1	Operations and Algebraic Thinking	1.0A	subtraction.	petals are subtracted
				Flutter: Adding and subtracting petals / pollen through
1	Operations and Algebraic Thinking	1.0A	Add and subtract within 20.	tile placement and enclosure
				Need to have enough petals to pay for a tile placement or
1	Operations and Algebraic Thinking	1.0A	Work with addition and subtraction equations.	enclosure; need to have the highest score to win
1	Measurement and Data	1.MD	Massure lengths indirectly and by iterating length units	Tiles of different sizes, each created in 1 E" cognition
1	Weasurement and Data	1.IVID	Measure lengths indirectly and by iterating length units.	Tiles and tokens of differing shapes, sizes, and colors that
1	Measurement and Data	1.MD	Represent and interpret data.	can be organized, counted, and compared
				Tiles of different shapes, sizes, and colors; ability to
				assemble tiles into other shapes; triangles, trapezoids,
1	Geometry	1.G	Reason with shapes and their attributes.	and others
				Adding and subtracting petals / pollen through tile
2	Operations and Algebraic Thinking	2.OA	Add and subtract within 20.	placement and enclosure
2	Operations and Algebraic Thinking	2.OA	Work with equal groups of objects to gain foundations for multiplication.	Placing and enclosing tiles of different sizes requires different groupings of petals
2	Measurement and Data	2.MD	Measure and estimate lengths in standard units.	Tiles all conform to lengths in 1.5" segments
_				Enclosing tiles results in increments of payouts (3 butter
2	Measurement and Data	2.MD	Work with time and money.	fly tiles, worth 8 points each, nets 24 points)
				Measure tiles or groupings of tiles; graph data based on
2	Measurement and Data	2.MD	Represent and interpret data.	tile and petal categories
2		2.0		Tiles of varying geometric shapes (triangles, trapezoids,
2	Geometry	2.G	Reason with shapes and their attributes. Represent and solve problems involving multiplication	and others) Groups of pollinators that are worth a specified amoung
3	Operations and Algebraic Thinking	3.OA	and division.	of pollen points each
	- Forest and a second a second and a second		Understand properties of multiplication and the	Groups of pollinators that are worth a specified amoung
3	Operations and Algebraic Thinking	3.OA	relationship between multiplication and division.	of pollen points each, which can then be reversed
				When a player cannot pay for an enclosed pollinator, all
			Solve problems involving the four operations, and	other players gain half that pollinator's pollen points,
3	Operations and Algebraic Thinking	3.0A	identify and explain patterns in arithmetic.	round up
3	Number and Operations—Fractions	3.NF	Develop understanding of fractions as numbers.	Use groupings of meadow tiles to demonstrate fractions Measure tiles or groupings of tiles; graph data based on
3	Measurement and Data	3.MD	Represent and interpret data.	tile and petal categories
	, and a second second		Geometric measurement: recognize perimeter as an	
			attribute of plane figures and distinguish between linear	Use meadow tiles to demonstrate and calculate
3	Measurement and Data	3.MD	and area measures.	polygonal perimeters
				Tiles of varying geometric shapes and attributes
3	Geometry	3.G	Reason with shapes and their attributes.	(rhombuses, and others); perform area calculations
4	Operations and Alcohoria Thinking	4.04	Use the four operations with whole numbers to solve	Use pollinator tiles to represent archieves to be an included
4	Operations and Algebraic Thinking	4.OA	problems. Solve problems involving measurement and conversion	Use pollinator tiles to represent problems to be solved Use meadow tiles to demonstrate and calculate
4	Measurement and Data	4.MD	of measurements from a larger unit to a smaller unit.	polygonal perimeters
				Meadow tiles have varying angles in 60 degree
4	Measurement and Data	4.MD	and measure angles.	increments
			Draw and identify lines and angles, and classify shapes	Use meadow tiles to demonstrate geometric patterns,
4	Geometry	4.G	by properties of their lines and angles.	angle types, parallel lines, etc.
				Use meadow tiles to demonstrate that attributes
			Classify two dimensional figures into actoroxics based	belonging to a category of two-dimensional figures also
5	Geometry	5.G	Classify two-dimensional figures into categories based on their properties.	belong to all subcategories of that category; classify two- dimensional figures based on properties
-	Comery	5.0	Understand ratio concepts and use ratio reasoning to	Calculate ratio / average number of points per pollinator
6	Ratios and Proportional relationships	6.RP	solve problems.	type or per color
	Ratios and Proportional relationships	6.RP		

NGSS (Next Generation Science Standards):

- LS1 From Molecules to Organisms: Structures and Processes
- LS2 Ecosystems: Interactions, Energy, and Dynamics

- ESS2 Earth's Systems
- ESS3 Earth and Human Activity