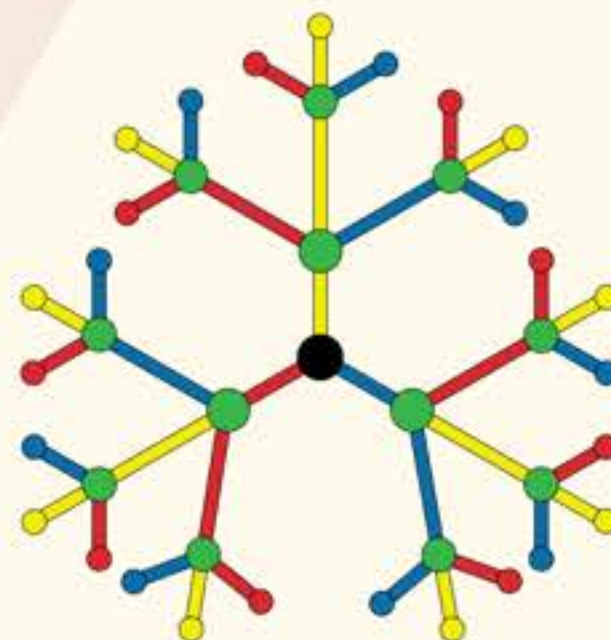




The Young People's Project

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# Making Math Fun and Engaging



**Presented by:**

Maisha Moses, Marquis "Keke" Lowe, Noore Elkatta, and

Timinte Abraham







# Agenda

Our... business for the session.

- Introductions!
- Learn how to walk the Flagway structure with colors.
  - Learn how to translate numbers into colors.
- Learn how to walk the Flagway structure with numbers (2-30)
  - Try to crack the Flagway code as you play!
- Stories, Debrief & About YPP

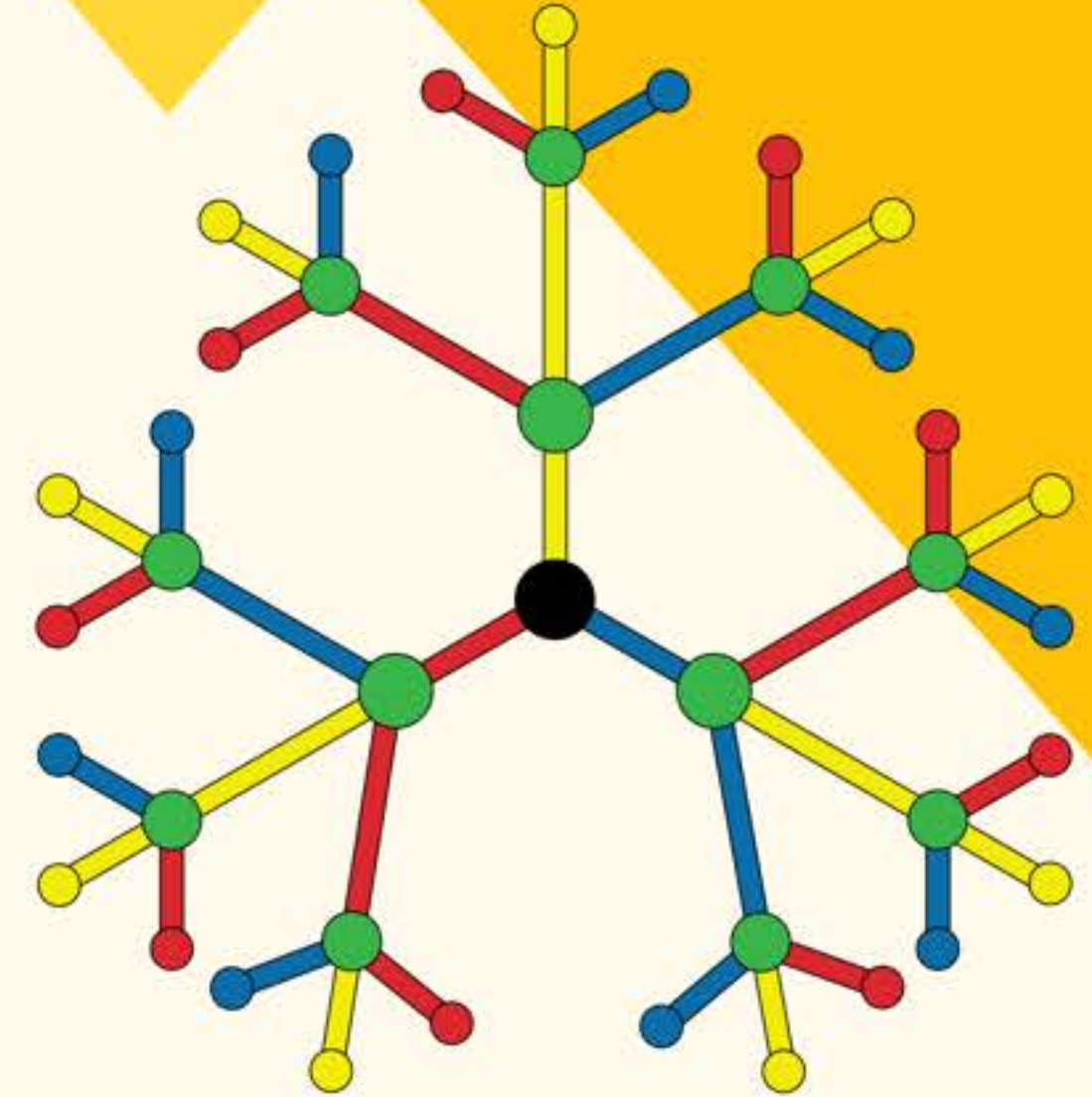






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<b>R</b>	<b>Y</b>	<b>B</b>
2	4	6
3	8	10
5	9	
7		



This is where we are going... but first...





When we teach Flagway,  
students discover **how to  
translate numbers into colors**  
using clues or conceptual  
building blocks.



# Clue #1: Even & Odd Numbers

## **Group Discussion**

Talk to each other and share everything you know about even and odd numbers. How many physical representations can your group describe or explain with cubes?





## **Clue #2:**

# Prime and Composite Numbers

### **Group Activity**

Let's define Prime and Composite Numbers! Use your cubes to show  
this!



# Clue #3: Prime Factors/Algebra Forms

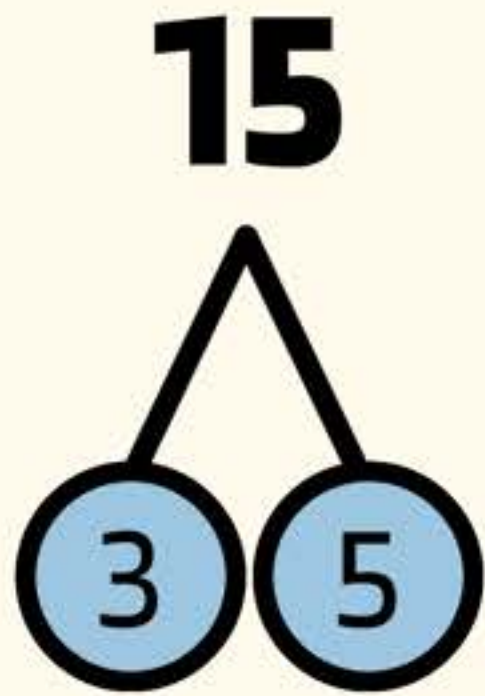
**13**

A → A  
13





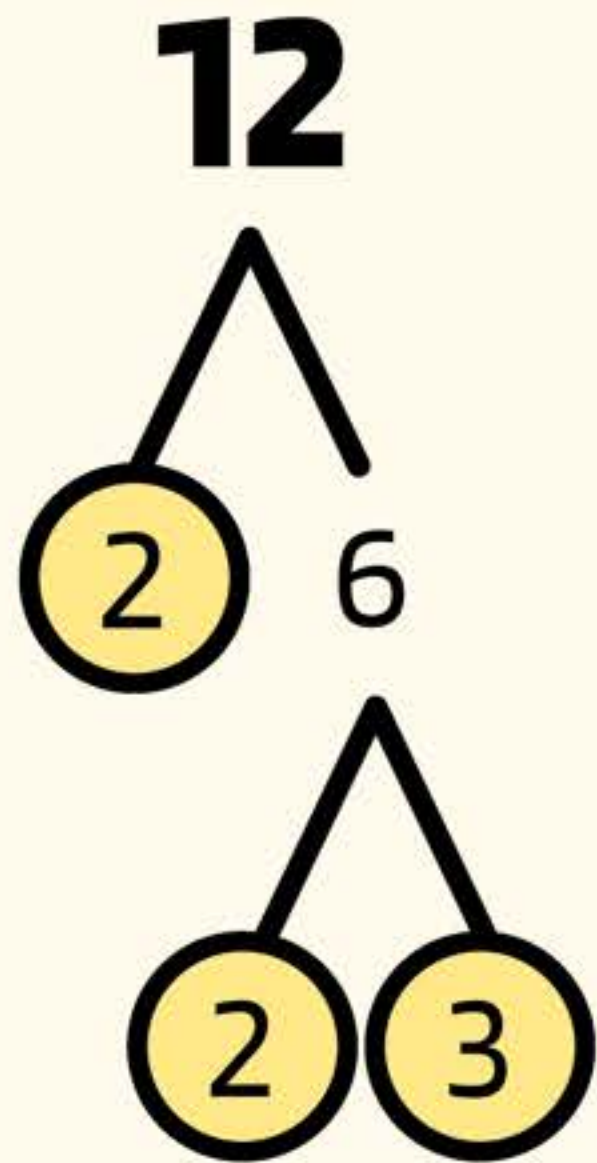
# Clue #3: Prime Factors/Algebra Forms



A	B
3	5



# Clue #3: Prime Factors/Algebra Forms



$$\begin{array}{ccc} A & A & B \\ 2 & 2 & 3 \end{array} \rightarrow A^2 B$$





# **Clue #3:**

# Algebra Form Callout

## **Group Activity**

A number will be called out and as a group state the prime factorization and algebra form.



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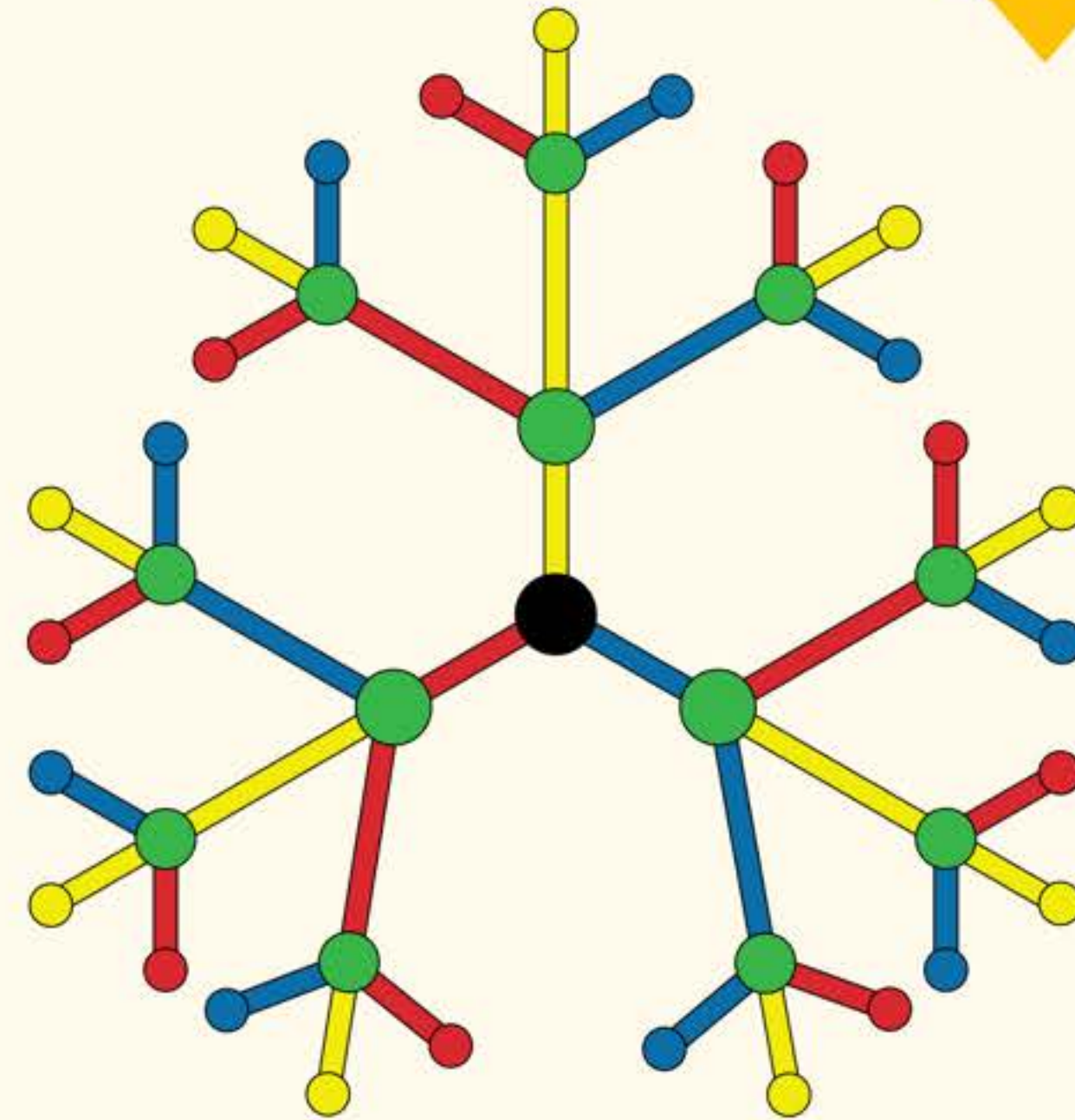




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# **Cracking the Code!**

Red	Yellow	Blue
2	4	6
3	8	10
5	9	
7		

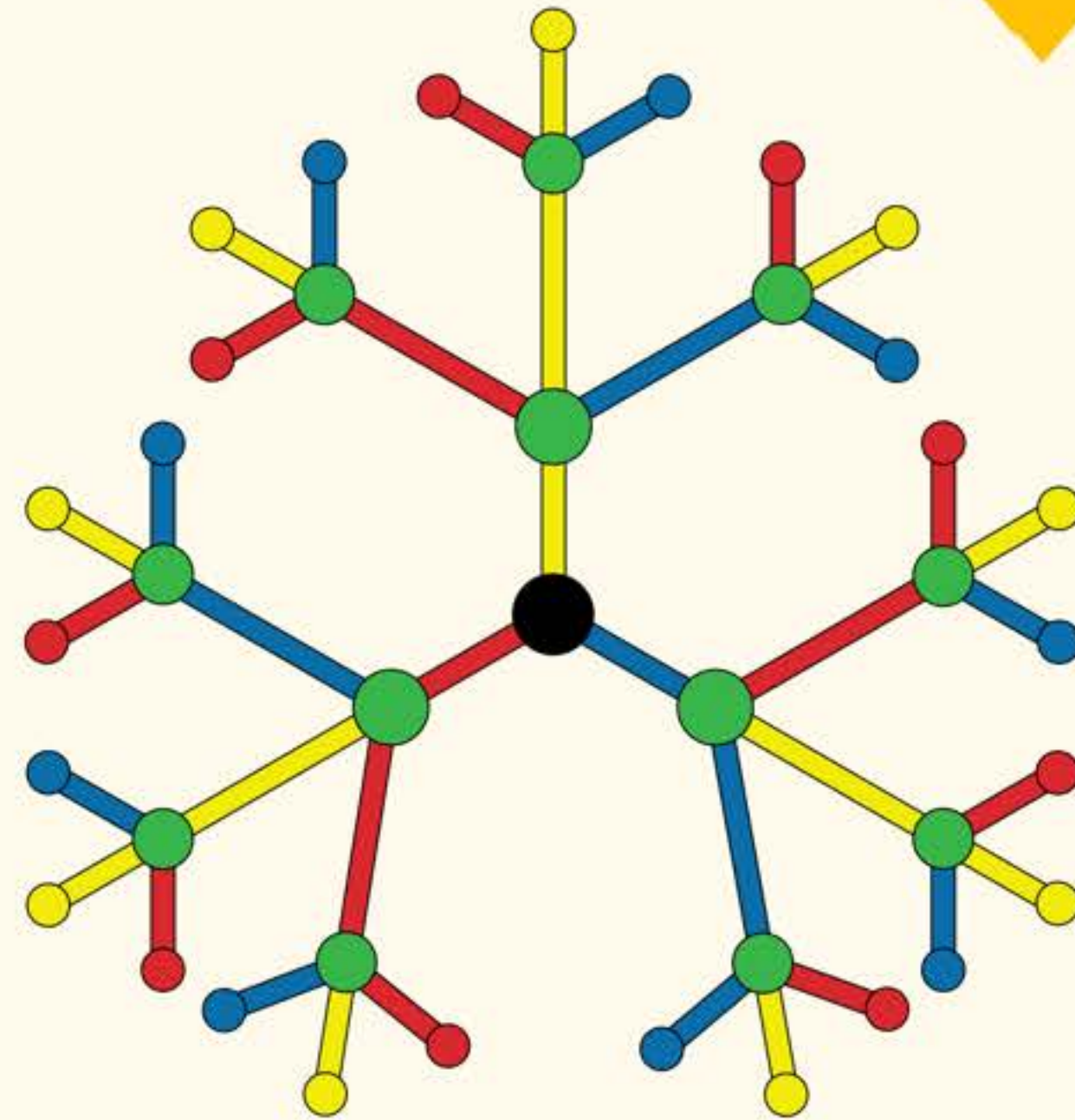


**Context**

In Flagway, all natural numbers (except #1) are grouped into mutually exclusive groups. The Chart shows how 2-10 are grouped.



Red	Yellow	Blue
2	4	6
3	8	10
5	9	
7		



## Group Activity

Following this chart, categorize numbers 11-20 with your group using the prime factor cards. Once you're done check with a trainer.

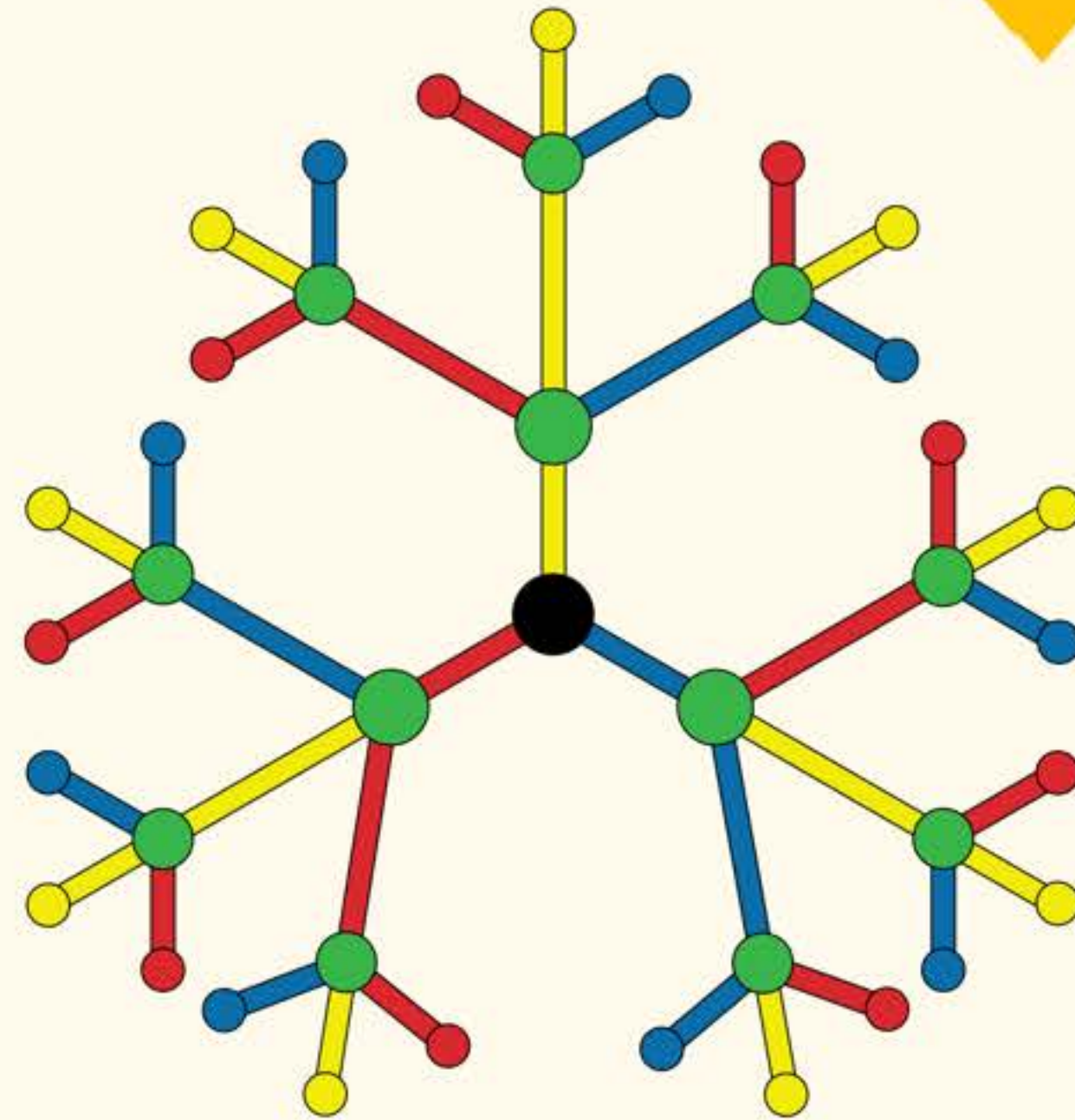


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**Learn how to walk the  
structure with numbers!**



Red	Yellow	Blue
2	4	6
3	8	
5	9	
7		



Walk these numbers out starting at the green polyspot in the middle