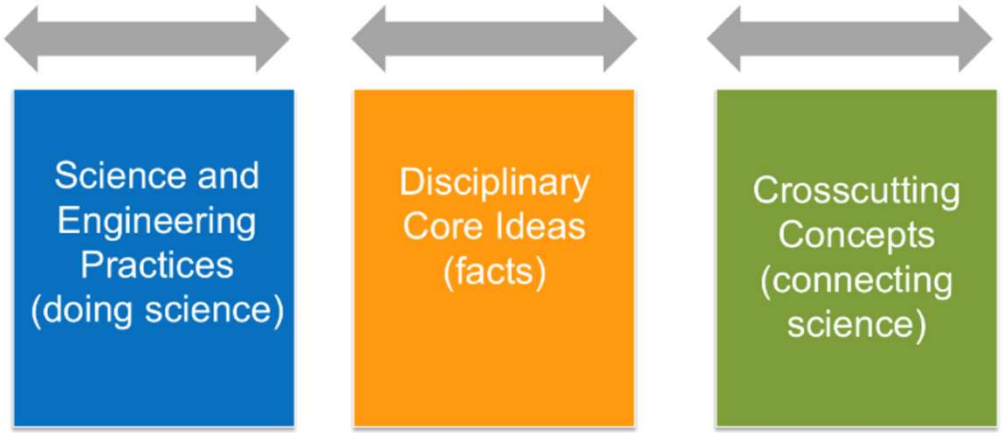
Twig Science

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Three Dimensions of NGSS

Next Generation Science Standards (NGSS)



NEXT GENERATION * SCIENCE STANDARDS

NGSS Standard- Life Science

4-LS1-2: Sensation, Processing, and Response

Use a model to describe that animals receive different types of information through their senses, process the information in their brain, and respond to the information in different ways. (Systems and System Models)

Fact of the Day:

- Let's compare the average human brain to the most powerful supercomputer ever built—the K from Fujitsu. Think of how much data a brain holds, and how fast it works. Multiply the speed by 4, and the storage space by 10, and that's how efficient the K is! However, in order for it to function, it needs about the same amount of power as is needed to provide electricity for 10,000 homes. On the other hand, a human brain uses less energy than a single light bulb requires to stay dim.

Grade 4 - Module 4: Super Survivors
Seeing is Believing

How does the brain make sense of and respond to information?

Image 1

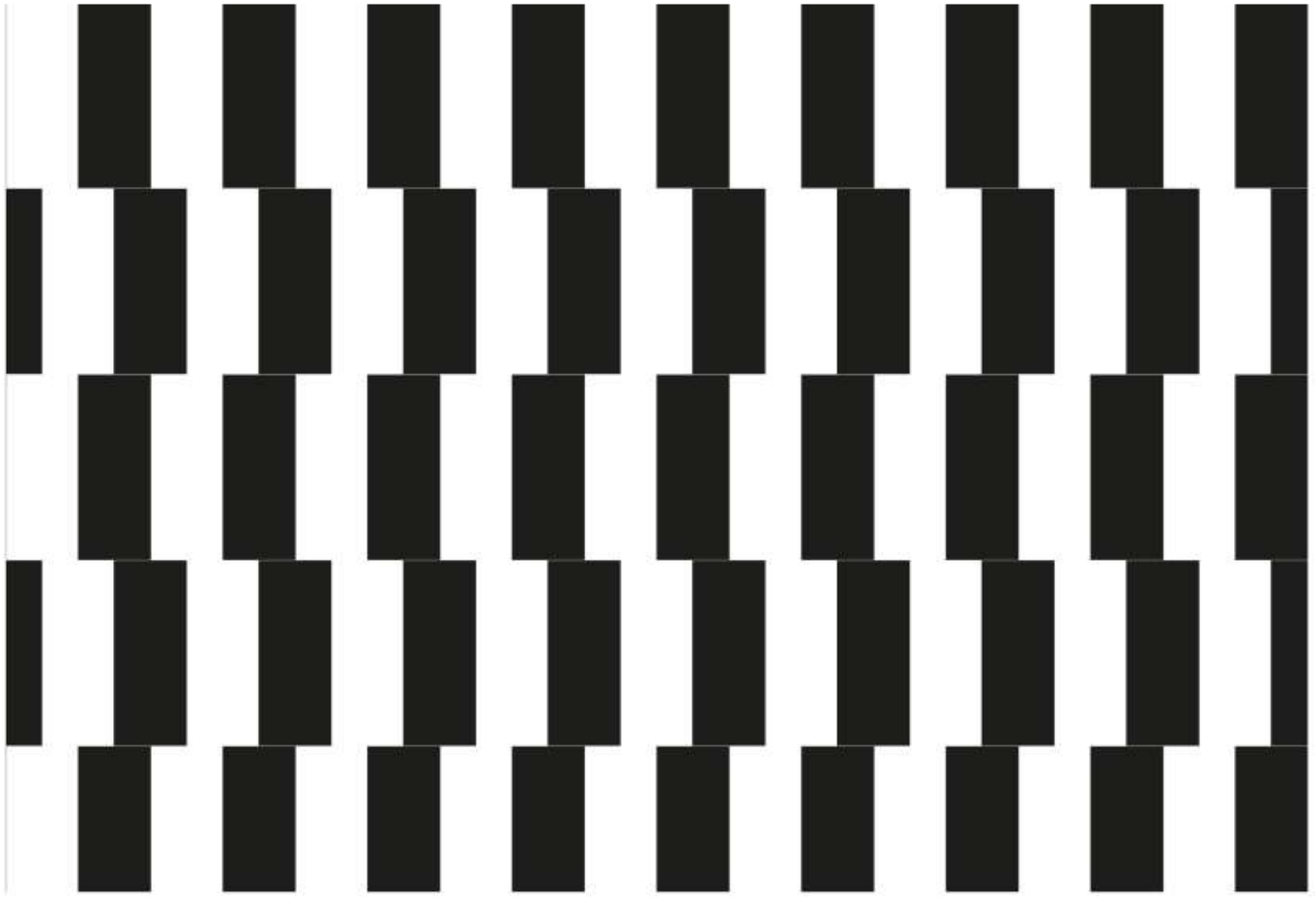


Image 2

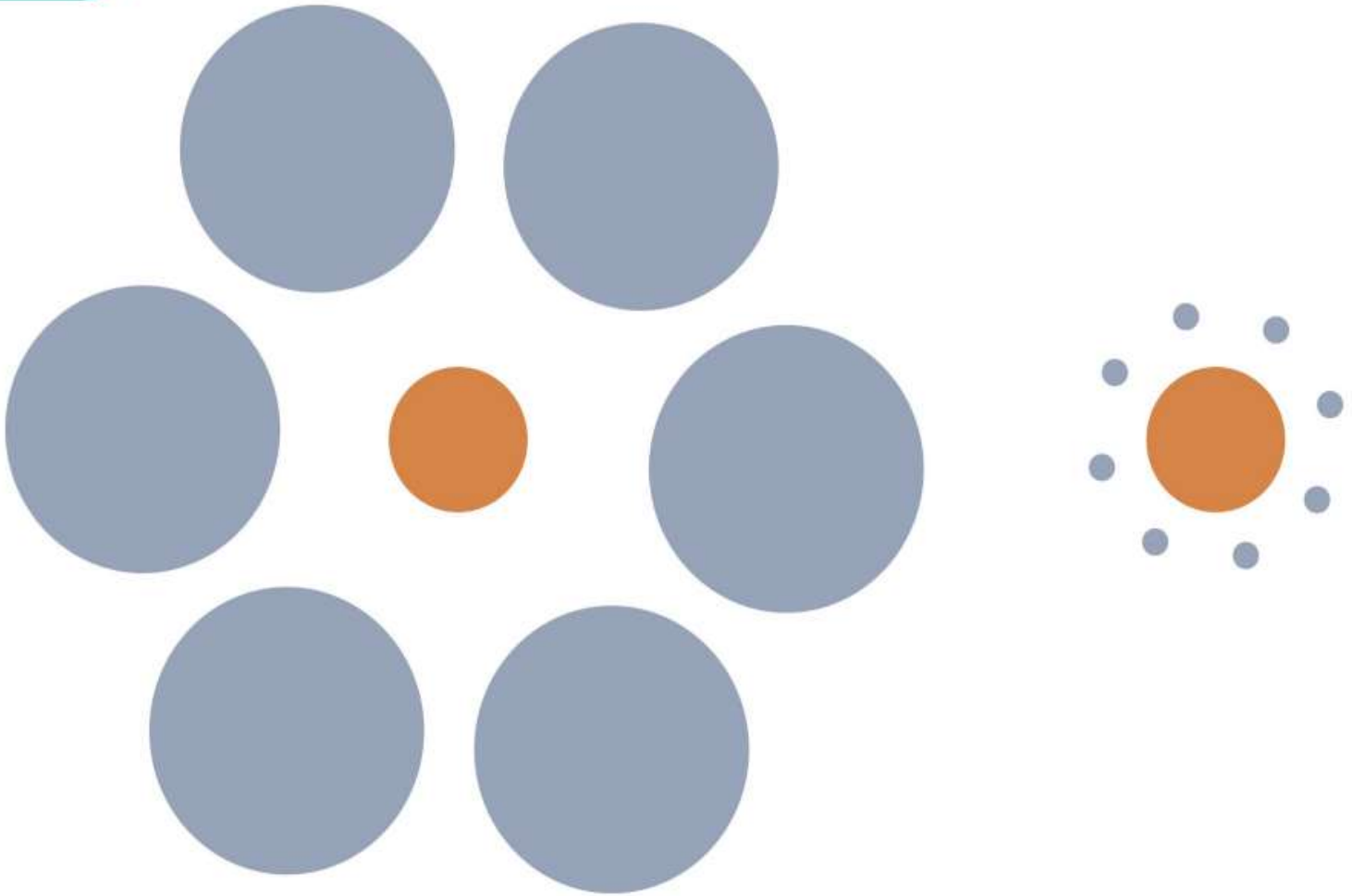


Image 3

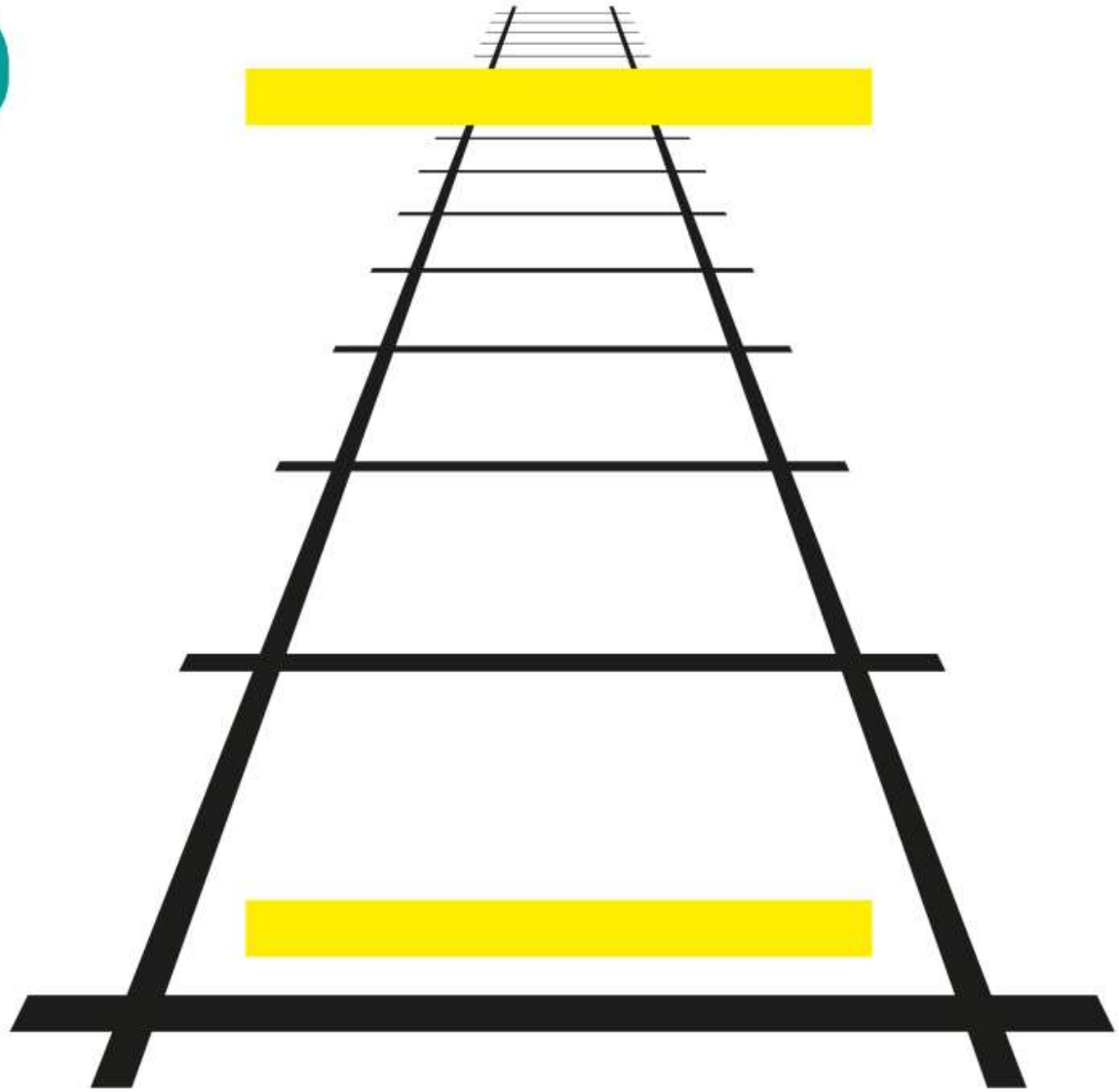


Image 4

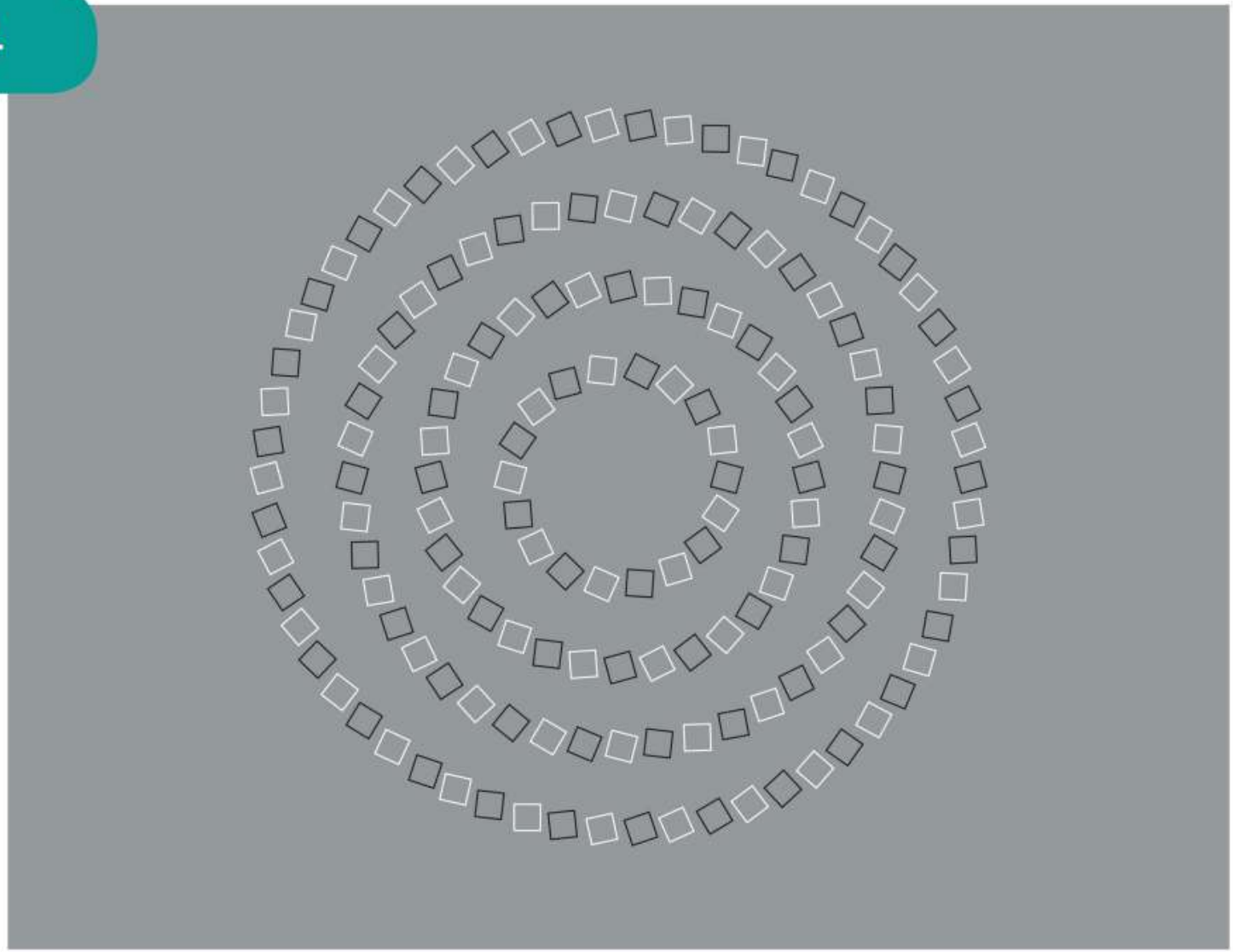


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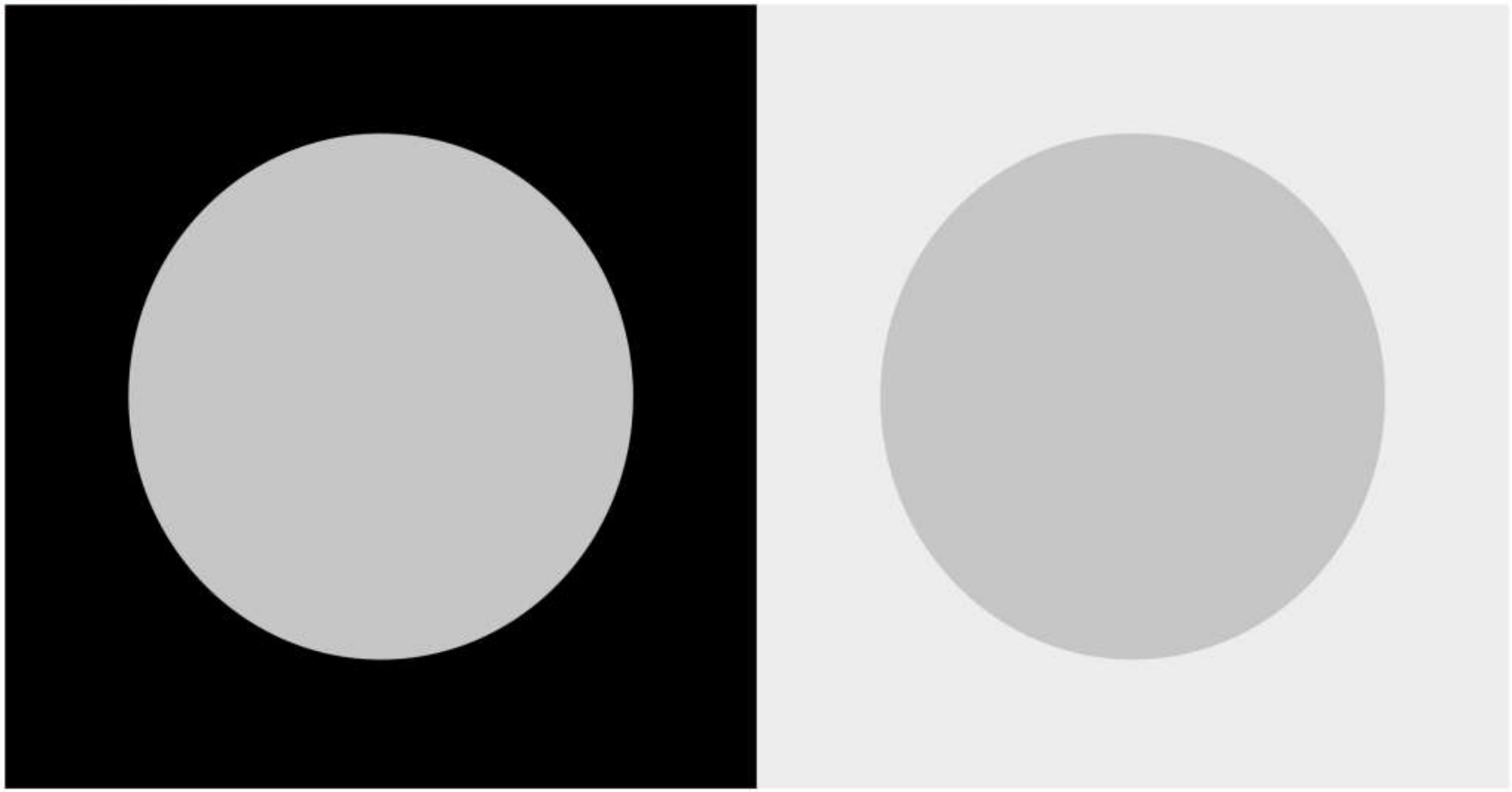
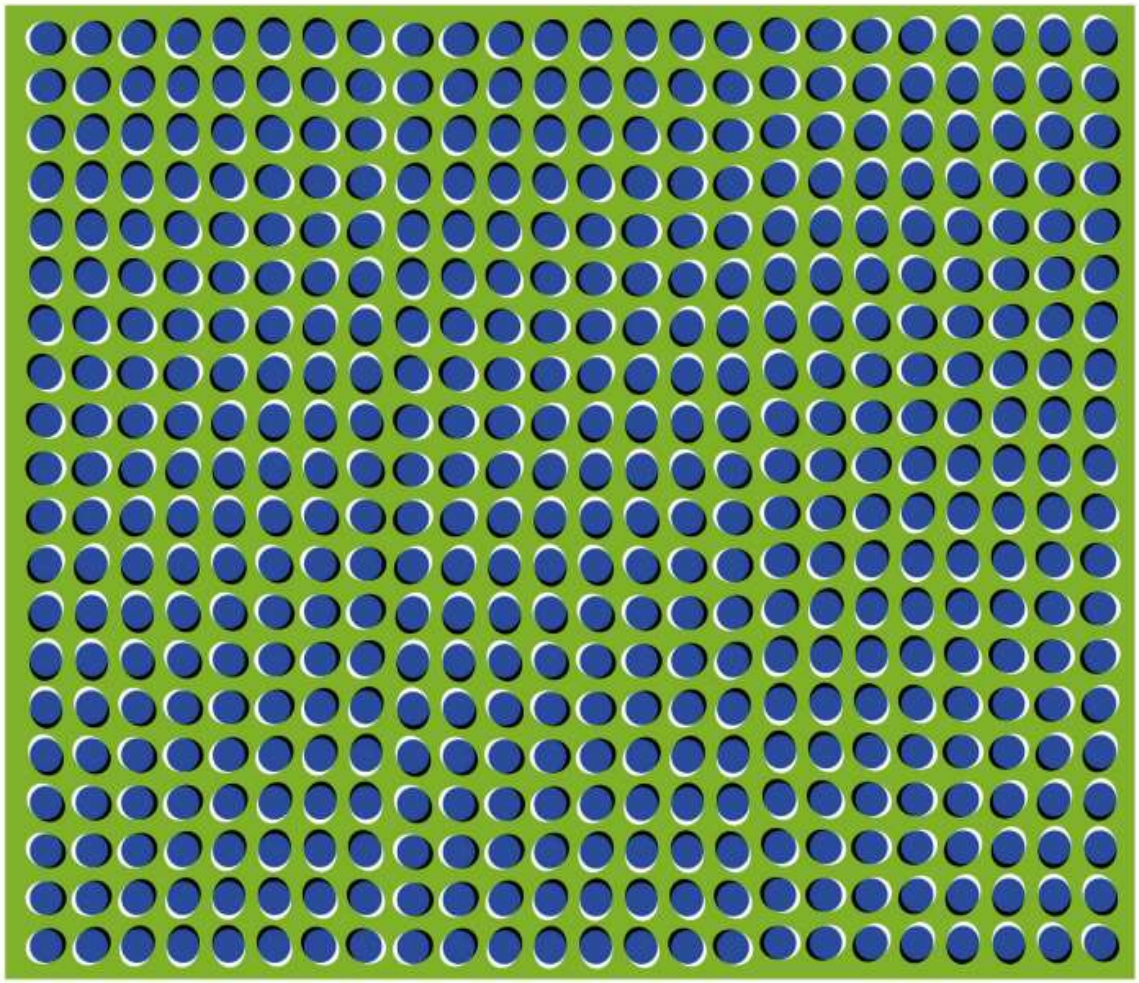


Image 6



Steps to Consensus

- A team answer
- An explanation of what might be happening in the brain
- Their method of figuring out the correct answer.

- What is the question?
- What do you need to know to answer this question?
- How are the <objects> the same or different?
- What can you do to compare <characteristic>?
- What measuring tool could you use to do this?


twig
-1:54

How does our brain process information?

- We receive visual information through our eyes and try to make sense of it in our brain.
- The brain takes in a lot of information at once from all the senses. That's a lot to understand. To work faster, our brains simplify things and take shortcuts.
- An illusion is created when the rule-of-thumb shortcuts don't work. This helps scientists understand how our brains organize the world.

Share

- Which images were the most surprising?
- Can you always believe what you see?

Questions?

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