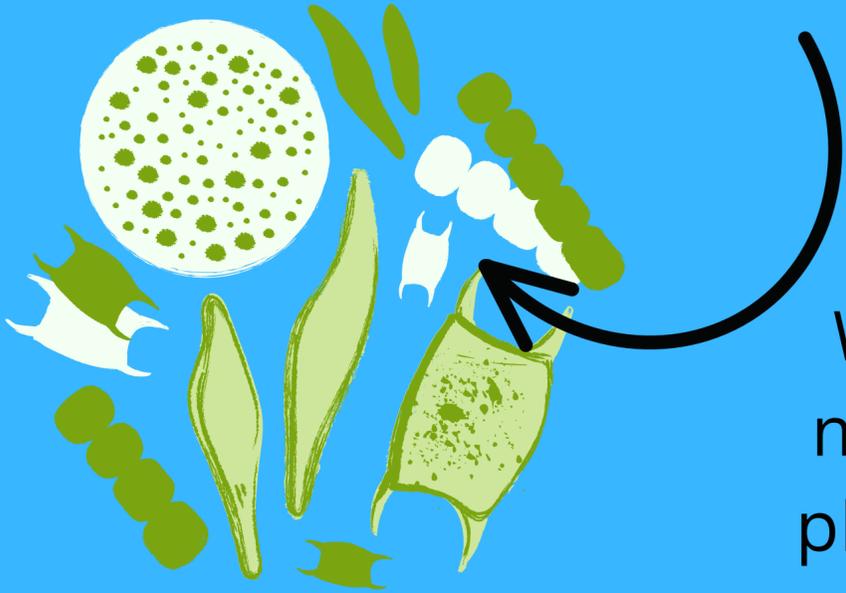


Pollutants include chemicals, trash, bacteria, and parasites. All forms of pollution eventually make their way to water.



Whale poop is rich in iron and nitrogen, both key minerals for phytoplankton growth. So more whales, means more poop, meaning more nutrients for the phytoplankton, which means more oxygen, more carbon storage and more food for the entire food chain.

Scientists estimate that roughly half of the oxygen production on Earth comes from the ocean. The majority of this production is from oceanic plankton



One of the reasons why whales die is because they think that plastic bags are jellyfish (food).





The vast majority of the fires in the Amazon and Indonesia are manmade and intentional—the result of illegal deforestation and clearing for farmland. Wildfires are in fact quite rare in tropical rainforests, due to the high humidity. These fires, however, are often deliberately set as part of slash-and-burn agriculture — a method of growing food in which farmers and cattle ranchers deliberately cut down and burn forestland to clear it for crops and livestock.



Growing the same crop year after year reduces the availability of certain nutrients and degrades the soil. Monocultures may therefore also lead to soil exhaustion when the soil becomes depleted of these nutrients.

In the last few decades, soil degradation has been sped up by intensive farming practices like deforestation, overgrazing, intensive cultivation, forest fires and construction work. These actions disturb soil and leave it vulnerable to wind and water erosion, which damages the complex systems underneath.

# 4 sources of air pollution



Mobile sources – such as cars, buses, planes, trucks, and trains. Stationary sources – such as power plants, oil refineries, industrial facilities, and factories.

Area sources – such as agricultural areas, cities, and wood burning fireplaces.

Natural sources – such as wind-blown dust, wildfires, and volcanoes.





**YOUR ROLE IS TO  
KEEP THE TEAM  
FOCUSED THROUGH  
THE GAME**





**YOUR ROLE IS TO  
HOLD THE 4  
ELEMENTS AS YOUR  
TEAM FIND THEM**





**YOUR ROLE IS TO  
KEEP THE TEAM  
TOGETHER WHILE  
PLAYING THE GAME**





**YOUR ROLE IS TO READ  
OUT LOUD FOR YOUR  
TEAM ALL THE HINTS  
YOU FIND DURING THE  
GAME**





# **YOUR ROLE IS TO PICK UP TRASH YOUR TEAM FINDS DURING THE GAME\***

**\*THE EQUIPMENT WILL BE GIVEN NEXT TO ONE OF  
THE ELEMENTS YOUR TEAM IS GOING TO FIND**





**YOUR ROLE IS TO PROTECT  
THE SEED YOUR TEEM WILL  
FIND DURING THE GAME  
UNTIL YOU REACH THE END**





# YOUR ROLE IS TO CALL THIS NUMBER IF YOU GET STUCK

**+CGA BFCCHFGH**

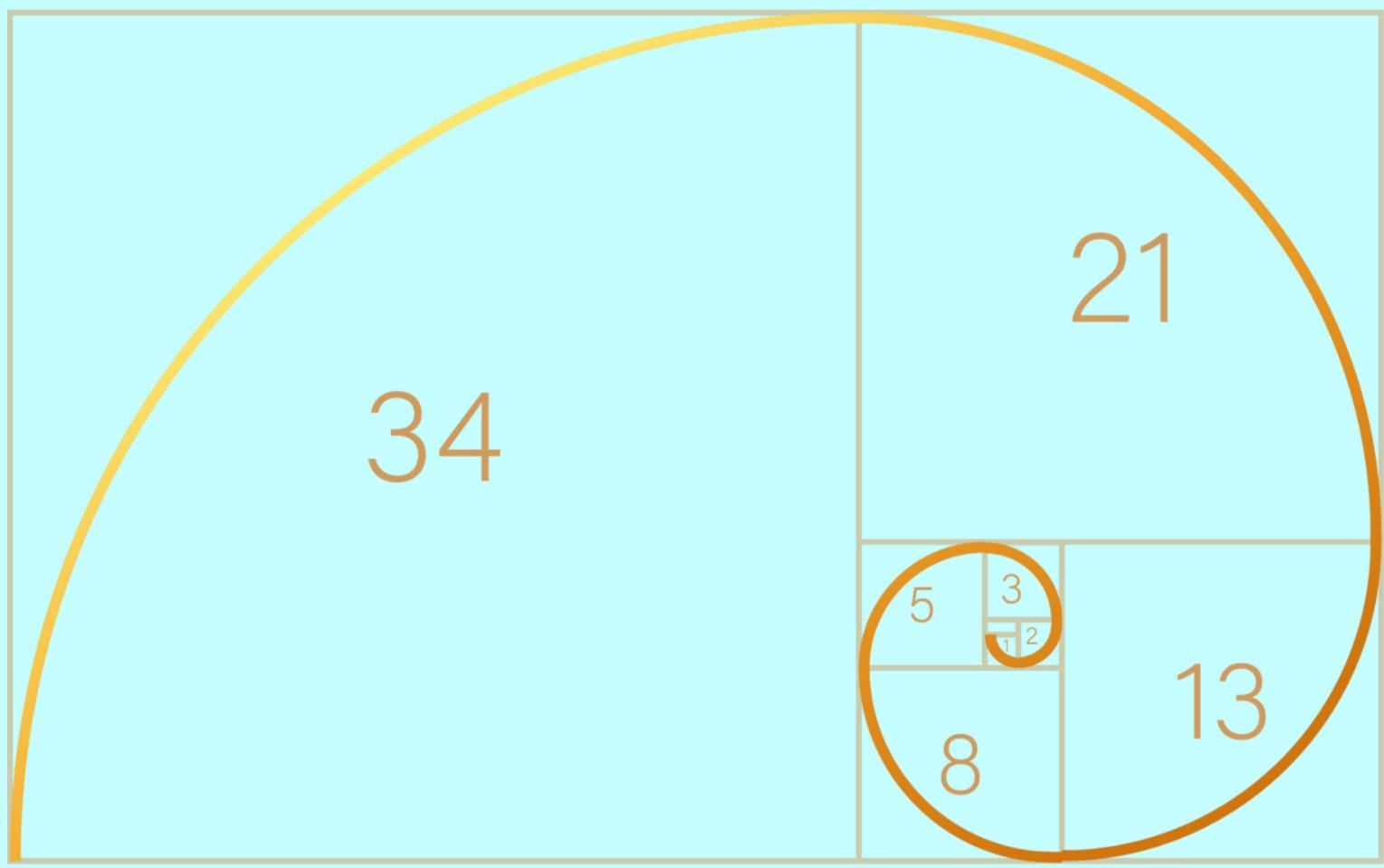
The modern English alphabet  
with 26 letters started in the  
16th century.





**YOUR ROLE IS TO HELP  
ANYONE WHO NEEDS IT  
DURING THE GAME**





Phyllotaxis spirals can be generated from Fibonacci ratios: the Fibonacci sequence runs 1, 1, 2, 3, 5, 8, 13... (each subsequent number being the sum of the two preceding ones).





**Find charcoal in  
the place of fire  
element and  
color the papers  
you found in the  
soil element box.**

000000

011111

010000

010000

000000

011111

000000

011111

00000000

10101110

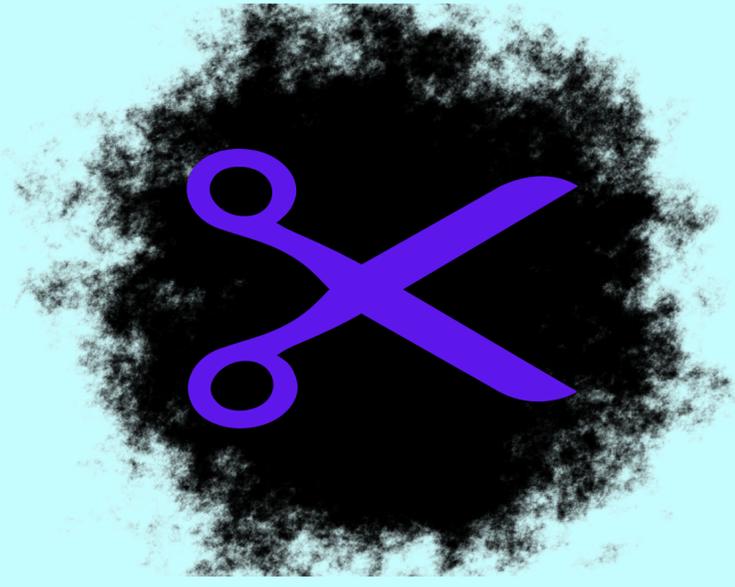
10100010

10100010

10100010

10100010

00000000



Ups... looks like  
wind is blowing  
west! It has carried  
the air element  
somewhere else....

