# **Advanced Higher Biology Project Ideas For Students**

Checkout advanced higher biology project ideas:

#### **Cell Biology and Microscopy Projects**

- 1. Watch plant cells change when you put them in salt water and in fresh water.
- 2. Compare animal cells and plant cells under a microscope to see their parts.
- 3. Study how yeast cells grow faster in warm places than in cold places.
- 4. Look at mouth bacteria under a microscope to see how they move.
- 5. Test which home cleaners kill the most germs on counters and doorknobs.
- 6. Watch onion cells under a microscope after you add food coloring.
- 7. Study how paramecia swim and change when you add salt to their water.
- 8. Compare red blood cells from fish and birds to see their shapes.
- 9. Watch plant cells make starch by testing leaves with iodine before and after.
- 10. Study how mold grows on different breads in warm and cold spots.
- 11. Look at pollen from different flowers to see their shapes and colors.
- 12. Test how long bacteria live on wood, plastic, and metal surfaces.
- 13. Watch algae cells move toward light and away from dark places in water.
- 14. Count tiny organisms in pond water to see how many types live there.
- 15. Compare how fast bacteria grow in warm milk and in cold milk.
- 16. Look at root tip cells of plants to see how they divide and grow.
- 17. Watch white blood cells attack germs under a microscope safely.
- 18. Test if honey or garlic can stop bacteria from growing.
- 19. Watch plant stomata open and close when you change light around them.
- 20. Compare cheek cells and leaf cells under a microscope to see their shapes.

- 21. Look at butterfly wing scales under a strong lens to see their colors.
- 22. Test how different water temperatures change how tiny pond organisms move.
- 23. Study how plant cells store energy by looking for starch in potato bits.
- 24. Watch bacteria form chains and groups when they grow on agar plates.
- 25. Compare cell walls of celery, lettuce, and tree bark under a microscope.
- 26. Study how amoebas eat by surrounding their food completely.
- 27. Watch pollen tubes grow when pollen lands on the right flower part.
- 28. Test which household items have the most bacteria each day.
- 29. Watch plant cells change color when you add different chemical dyes.
- 30. Study how pond microorganisms swim in drops of water and their paths.
- 31. Look at crystals inside plant cells when they store minerals.
- 32. Test how UV light changes bacterial growth compared to normal light.
- 33. Compare muscle cells and nerve cells under a microscope to see their jobs.
- 34. Watch plant cells fix themselves after you gently harm a leaf.
- 35. Look at diatom patterns under a microscope to see their glass walls.
- 36. Test how salt level changes red blood cell size and shape.
- 37. Study how bacteria talk using chemicals they send into water.
- 38. Watch plant cells move food and water from roots to leaves.
- 39. Look at how different antibiotics change bacterial growth on plates.
- 40. Study the life cycle of bread mold by watching its spore growth.

### **Genetics and DNA Projects**

- 41. Extract DNA from strawberries using soap and rubbing alcohol at home.
- 42. Study how traits like eye color move from parents to children.

- 43. Compare DNA you see from bananas, kiwis, and oranges under a microscope.
- 44. Look at how identical twins have the same DNA but still look different.
- 45. Study how flower color in plants comes from different genes.
- 46. Test if traits like tongue rolling stay in families or not.
- 47. Compare male and female chromosomes using ready slides from a store.
- 48. Study how breeding beans of different colors makes new colors in kids.
- 49. Look at fruit flies with mutations to see new wing shapes.
- 50. Test if plants from the same parent have the same leaf shapes.
- 51. Study how crossing corn kernels of different colors shows dominant and recessive traits.
- 52. Compare DNA you get from fresh fruit versus frozen fruit.
- 53. Look at family trees to track genetic disorders from grandparents to kids.
- 54. Study how breeders mix parents to make new flower colors.
- 55. Test if family members share similar fingerprint patterns.
- 56. Compare DNA amount from leaves, flowers, and stems of plants.
- 57. Study how some traits skip a generation by looking at families.
- 58. Look at how engineers change plant genes to resist diseases.
- 59. Test if identical twins have the same fingerprints even with the same DNA.
- 60. Study how chromosomes pair up during cell division to pass traits.
- 61. Compare traits that one gene controls by crossing different plants.
- 62. Look at how genetic counselors help families see disease risks.
- 63. Study how cloning makes plants that are the same as the parent.
- 64. Test if some traits happen more in certain groups of people.
- 65. Compare dog breed traits from selective breeding over many years.

- 66. Study how genetic tests help doctors find diseases early.
- 67. Look at traits that help some plants live in certain places.
- 68. Test if seed-grown plants have more variety than cloned ones.
- 69. Study how markers in DNA help track animal movement over time.
- 70. Compare wild plant diversity and farm plant diversity using DNA tests.
- 71. Look at how gene therapy might fix diseases in people's cells.
- 72. Study how engineers make crops grow in tough weather conditions.
- 73. Test if certain gene mixes help plants resist bugs naturally.
- 74. Compare chromosomes of related species to see how they changed.
- 75. Study how a small population drop makes species lose diversity.
- 76. Look at how doctors use personal DNA to choose the best treatment.
- 77. Test if more variety in plant genes helps them survive changes.
- 78. Study how computer gene models help solve biology problems.
- 79. Compare human DNA and chimpanzee DNA to see how similar they are.
- 80. Look at how changing genes helps make medicines that save lives.

#### **Ecology and Environmental Biology Projects**

- 81. Study how pollution in your area changes plant growth.
- 82. Test which plants grow best in soils with different pH levels.
- 83. Compare how many species live in dirty places versus clean ones.
- 84. Study how climate change shifts flower bloom and bird migration times.
- 85. Test if organic farms have more wildlife than normal farms do.
- 86. Compare water quality in local streams by checking oxygen levels.
- 87. Study how building cities changes the animals that live there.

- 88. Test which local plants make good gardens for wildlife.
- 89. Compare old forests and young forests for how many species live there.
- 90. Study how invasive species change the balance of new ecosystems.
- 91. Test if composting cuts waste and makes good soil for plants.
- 92. Compare different fertilizers to see their effect on plants and water.
- 93. Study how food webs link species in your local area.
- 94. Test if green roofs cool buildings and help city wildlife.
- 95. Compare carbon footprints of cars, bikes, buses, and walking.
- 96. Study how wetlands clean water and give homes to many animals.
- 97. Test if solar panels hurt or help local wildlife.
- 98. Compare coral reef health where people visit a lot versus less.
- 99. Study how forest fires change ecosystems and which plants come back first.
- 100. Test if recycling food waste makes less methane than landfills.
- 101. Compare air quality in neighborhoods and how it affects plants.
- 102. Study how broken habitats change animal moving and breeding.
- 103. Test if city noise changes bird songs and how they call each other.
- 104. Compare ways to save species and see which works best.
- 105. Study how seasons change animal behavior and life steps.
- 106. Test if rain gardens stop flooding and clean storm water.
- 107. Compare packaging types to see their effect on local nature.
- 108. Study predator and prey links to see how nature stays in balance.
- 109. Test if butterfly gardens with local plants help more pollinators than non-local plants.
- 110. Compare energy use of different house designs and their impact on nature.

- 111. Study how tiny plastics harm sea life and food chains in oceans.
- 112. Test if community gardens clean city air and give fresh food.
- 113. Compare how much water different farm watering methods use in dry places.
- 114. Study how light at night changes animal night habits and health.
- 115. Test if local native yards need less water and help wildlife more than lawns.
- 116. Compare wind farms and solar farms for their effect on nature.
- 117. Study how ocean acid makes it hard for shells and coral to grow.
- 118. Test if electric or shared transport cuts city pollution and helps health.
- 119. Compare diets like meat, vegan, and mixed for their land and water use.
- 120. Study how citizen science helps track environmental changes and animal numbers.

#### **Human Biology and Health Projects**

- 121. Test how running, biking, and dancing change heart rate and rest time.
- 122. Study which foods give more energy for sports and school work.
- 123. Compare how sleeping on back, side, or stomach changes sleep quality and morning wakefulness.
- 124. Test if quiet sitting and deep breaths cut stress and help focus.
- 125. Study how too much screen time changes eye health and sleep for all ages.
- 126. Compare vitamins and nutrients in fresh foods and in packaged foods.
- 127. Test if music choices help you focus and learn better.
- 128. Study how not drinking enough water changes how your body and brain work.
- 129. Compare hand-washing steps to see which removes the most germs.
- 130. Test if standing desks help keep your back straight and cut pain compared to sitting.
- 131. Study how bright or dim lights change mood and work quality.

- 132. Compare steaming, baking, and frying to see which keeps more nutrients.
- 133. Test if regular stretching makes you more flexible and less likely to hurt yourself.
- 134. Study how caffeine in drinks changes reaction time at different hours.
- 135. Compare vitamins from fruits and veggies and from pills for immune health.
- 136. Test if laughing exercises really make you feel happier and lower stress.
- 137. Study how slow, fast, and deep breaths change oxygen levels and sports performance.
- 138. Compare sunlight and lamp light for how well they make vitamin D.
- 139. Test if yogurt and pickles with probiotics help digestion and immunity.
- 140. Study how going to bed and waking at the same times helps memory and school work.
- 141. Compare fats from nuts, oils, and snacks to see which is best for your heart.
- 142. Test if smells from oils help lower stress and help your brain work.
- 143. Study how you sit at computers changes neck and shoulder aches.
- 144. Compare ways to calm down, like talking, meditating, or drawing for health and happiness.
- 145. Test if colors around you change how you feel and act in rooms.
- 146. Study how drinking water helps kidneys work and keeps your body doing well.
- 147. Compare walking, running, and biking for heart fitness.
- 148. Test if sitting quietly and focusing your mind helps you worry less and work better.
- 149. Study how eating at different times affects your body's energy and metabolism.
- 150. Compare honey, herbs, and medicine to see which helps a sore throat best.
- 151. Test if seeing friends and family makes people feel better and live longer.
- 152. Study how hot or cold rooms change comfort and work how well you do tasks.
- 153. Compare tap water, filtered water, and bottled water for health effects.

- 154. Test if going outside in parks helps you feel calmer and cut stress.
- 155. Study how shoe types change your foot health and posture when you walk.
- 156. Compare how well your body uses vitamins from food or from pills.
- 157. Test if background noise helps or hurts your focus when you study.
- 158. Study how washing, drying, and moisturizing your skin changes its health.
- 159. Compare yogurt, kimchi, and kefir for how they help your digestion and health.
- 160. Test if checking your health often helps you make better choices and stay well.

#### **Plant Biology and Botany Projects**

- 161. Study how red, blue, and green light change plant growth and flowering in a grow box.
- 162. Test if plants send signals through their roots to talk to each other.
- 163. Compare clay, sand, and potting soil to see how veggies taste and get minerals.
- 164. Study how plants bend when you touch or shake them.
- 165. Test if planting tomatoes and beans together helps them grow better than alone.
- 166. Compare drip, sprinkle, and hand watering to see which saves the most water.
- 167. Study how cacti, ferns, and daisies change their leaves in dry or wet weather.
- 168. Test if playing music or sounds helps plants grow faster or stronger.
- 169. Compare vitamins in plants grown in compost soil versus chemical fertilizer soils.
- 170. Study how roots find water in sand, clay, and potting soils.
- 171. Test if wood chips, straw, or pebbles on soil keep plants moist differently.
- 172. Compare cutting off dead branches and leaving them on to see fruit yield and plant health.
- 173. Study how plants use smells or sticky hairs to keep bugs away.
- 174. Test if towers of plants make more food in a small space than a flat garden.

- 175. Compare seed sprouting when you store seeds in a jar, fridge, or paper bag.
- 176. Study how chemical, organic, and no fertilizer change plant and soil health.
- 177. Test if cuttings or seeds make stronger new plants.
- 178. Compare tough native shrubs and new garden flowers for surviving dry spells.
- 179. Study how sunflowers follow the sun by checking leaf angles each hour.
- 180. Test if planting corn, beans, and squash together makes soil better and fewer bugs.
- 181. Compare roots of grasses, shrubs, and trees for how they stop soil washing away.
- 182. Study how plants grow differently in spring, summer, fall, and winter lights and temperatures.
- 183. Test if good soil bacteria help roots take up food better than clean soil.
- 184. Compare vitamins in veggies picked young, mid-grow, and fully grown.
- 185. Study how plants heal after you cut off a leaf or stem.
- 186. Test if small pots or big pots help roots grow faster and plants do better.
- 187. Compare how bees, butterflies, and flies pollinate flowers of different shapes and smells.
- 188. Study how plants keep food and fuel in leaves, stems, or roots.
- 189. Test if water without soil uses less water to grow lettuce than soil gardens.
- 190. Compare plant growth in greenhouses with heaters, coolers, or open air.
- 191. Study how plants make their own bug spray chemicals to stay safe.
- 192. Test if shallow or deep planting changes how seeds sprout and grow young plants.
- 193. Compare how much oxygen ferns, mosses, and grasses make in light.
- 194. Study how flowers open when pollinators come out each day.
- 195. Test if compost piles or store fertilizer feed plants better over months.

- 196. Compare frost-hardy and frost-soft plants for winter survival tricks.
- 197. Study how plants spread seeds by wind, water, or animals.
- 198. Test if ladybugs or lacewings in a garden eat more pests and help plants.
- 199. Compare mint, basil, and rosemary for their health benefits and useful oils.
- 200. Study how plants keep enough water and sunlight to live without drying out.

#### **Animal Behavior and Zoology Projects**

- 201. Study how chameleons, moths, and deer hide from enemies by their colors.
- 202. Test if dogs and cats learn to hear their names and do simple tasks.
- 203. Compare ants that farm fungi and ants that hunt for food to see their groups.
- 204. Study how birds use the sun, stars, and Earth's magnet to fly long distances.
- 205. Test if fish, birds, and lizards like certain colors in their food and homes.
- 206. Compare how crows, raccoons, and octopuses solve food puzzles.
- 207. Study how monkeys, whales, and bees talk using sounds and smells.
- 208. Test if parrots and rats can learn to count treats you give them.
- 209. Compare how lions, bats, and turtles rest and sleep in their homes.
- 210. Study how squirrels and bears change their habits when food is scarce or cold.
- 211. Test if dolphins and elephants recognize themselves in mirrors.
- 212. Compare how wolves, owls, and spiders catch their prey.
- 213. Study how baby animals learn from mom or the group.
- 214. Test if dogs, cats, and monkeys show happy or sad feelings you can see.
- 215. Compare how dolphins, elephants, and rats remember things over days.
- 216. Study tool use by crows, chimpanzees, and otters to get food or build homes.
- 217. Test if horses and dolphins can learn tasks to help people.

- 218. Compare how bears, lions, and beavers guard their areas.
- 219. Study how elephants and birds teach their young to find food and stay safe.
- 220. Test if pigeons and rats link sounds or lights with treats or mild surprises.
- 221. Compare how peacocks, deer, and frogs show off to find mates.
- 222. Study how foxes and rabbits change when other species share their space.
- 223. Test if cats and chickens pick certain nesting spots and materials.
- 224. Compare decision making in wolves, dolphins, and ants when food is scarce.
- 225. Study how bats, owls, and moles use their senses to move at night.
- 226. Test if pigs and mice learn by watching other animals do tasks.
- 227. Compare how puppies, kittens, and chicks play to learn skills.
- 228. Study how raccoons and pigeons change when people move into their areas.
- 229. Test if dogs and dolphins form friendships with other species or with people.
- 230. Compare how cows, birds, and fish find and eat their food.
- 231. Study how apes and cats use body moves to talk to each other.
- 232. Test if mice and fish act stressed in hard situations and how they calm down.
- 233. Compare how kangaroos, penguins, and wolves care for their young.
- 234. Study how monkeys and hyenas rank who is boss in their groups.
- 235. Test if parrots and bees learn to tell different colors or shapes apart.
- 236. Compare escape moves of rabbits, deer, and fish when a predator comes.
- 237. Study how beavers and birds change their homes to suit themselves.
- 238. Test if elephants and geese mourn when they lose friends or babies.
- 239. Compare how bears, squirrels, and turtles change for winter or mating seasons.
- 240. Study how wolves and cats mark their areas with smells to say who they are.

#### **Biotechnology and Applied Biology Projects**

- 241. Test if vinegar, spice oils, or salt keep food fresh like store preservatives.
- 242. Study how yeast and bacteria turn milk into yogurt and dough into bread.
- 243. Compare using bugs and using sprays to keep garden pests away.
- 244. Test if helpful bacteria can clean up oil spills in water.
- 245. Study how tiny gene tags help scientists spot different animals or plants.
- 246. Compare making biofuel from corn, algae, and waste to see which gives more energy.
- 247. Test if plants changed in labs can make medicine to help people.
- 248. Study how growing plant cells in jars can save rare plants from dying out.
- 249. Compare boosting food nutrients by crossbreeding versus by changing genes.
- 250. Test if filters with living bugs clean water better than normal filters.
- 251. Study how lab-made materials can be strong and kinder to Earth.
- 252. Compare yogurts with different probiotics to see which help digestion best.
- 253. Test if algae made in labs can give us fuel and food faster than crops.
- 254. Study how DNA barcodes help find bad food or wrong species in products.
- 255. Compare ways of growing tissues in labs to make new body parts.
- 256. Test if living cell sensors spot poisons more accurately than machines.
- 257. Study how making vaccines with biotech stops diseases worldwide.
- 258. Compare plastic made from plants and from oil to see which harms Earth less.
- 259. Test if tiny lab bugs can make vitamins better than factory methods.
- 260. Study how biotech tools help farmers grow more food using less land and water.

## **Advanced Higher Biology Project Ideas Enzymes**

- 1. Try changing the temperature to see how fast the catalase enzyme breaks down hydrogen peroxide safely.
- 2. Check if different pH levels make the amylase enzyme work faster or slower when breaking down starch.
- 3. Look at how the pepsin enzyme works better in acid or in plain water.
- 4. Add different amounts of salt to see if trypsin still breaks down protein well.
- 5. Test how ripe fruit changes how well pectinase breaks down fruit cell walls.
- 6. See if fresh pineapple juice or canned juice has more enzyme activity using a test with gelatin.
- 7. Freeze and thaw an enzyme to find out if it still works the same or gets damaged.
- 8. Add heavy metals to enzymes to see if they stop working like they should.
- 9. Try different washing powders to find out which one works best at cleaning protein and starch stains.
- 10. Use different amounts of catalase and hydrogen peroxide to test if more enzyme makes the reaction faster.
- 11. Heat or add acid or base to an enzyme to see when it stops working (denatures).
- 12. Check if enzymes in different plant parts (leaves, stems, roots) work the same or not.
- 13. See if enzymes need helper molecules called cofactors or coenzymes to work properly.
- 14. Try adding special molecules that bind to enzymes and see how they change enzyme activity.
- 15. Look at how well enzymes from different animals break down food and compare them.
- 16. Stick enzymes to a solid object and see if they stay stable and can be reused.
- 17. Try to stop a reaction using its end product to see how feedback inhibition controls enzymes.
- 18. Compare different protease enzymes to see which one cuts protein chains in specific places.

- 19. See if natural foods with enzyme blockers slow down digestion and nutrient absorption.
- 20. Measure how fast an enzyme works using different amounts of substrate to learn about enzyme speed.
- 21. Compare enzymes from hot-loving bacteria and regular bacteria to see which ones handle heat better.
- 22. Watch how enzyme activity changes while seeds grow into plants.
- 23. Use chemicals that stop enzymes forever or for a short time to see how pathways change.
- 24. Try different carbohydrases and see which ones break down certain sugars or starches better.
- 25. Use the Bradford test and activity test to check if enzyme amount matches how active it is.
- 26. Look at where enzymes are inside a cell to see if their location affects how well they work.
- 27. Compare natural and man-made enzyme blockers used in making medicines.
- 28. Use different amounts of substrate to test if enzymes follow special patterns in speed changes.
- 29. See if enzymes work better or worse after they are changed by a process like phosphorylation.
- 30. Compare normal enzymes to changed ones made for factories to see which works faster or better.
- 31. Add cleaners or soaps to enzymes to see if they still work well or stop working.
- 32. Try different methods of cleaning and preparing enzymes to see how pure and strong they are.
- 33. Compare wet and freeze-dried enzymes to see which stores better at different temperatures.
- 34. Watch enzyme activity at different times of day to see if it follows a daily rhythm.
- 35. Change salt levels or liquid types to see how well enzymes stick to their substrates.

- 36. Try different testing methods to see which one best measures enzyme speed and results.
- 37. Add things that cause stress to cells and see how enzymes respond or get protected.
- 38. Change the environment like heat or cold and see if the cell makes more or fewer enzymes.
- 39. Compare how different enzyme types like oxidoreductases or transferases do their job in reactions.
- 40. Try fixing broken enzymes using refolding steps or helper proteins and check if they work again.
- 41. Use engineering methods to change enzymes and make them better for science or business.
- 42. Look at different ways to use enzymes in making food or products and compare their activity.
- 43. See if the type of fat in membranes changes how well membrane-bound enzymes work.
- 44. Study how enzymes pass signals by working one after the other in a chain of reactions.
- 45. Try different ways to keep enzymes strong for longer use in factories or labs.
- 46. Watch how enzyme activity changes when cells grow or turn into other cell types.
- 47. Study how enzyme shapes match their jobs using models and test results.
- 48. Compare how enzymes work with or without oxygen and see which pathways they use.
- 49. Shake or push on enzymes to see if they still work under force.
- 50. Look at how enzymes in peroxisomes help break down fats and do other special jobs.
- 51. Compare ways to send enzymes into the body for medical help and see which works best.
- 52. Study how big or small animals follow rules in how fast their enzymes work.
- 53. See how enzymes change over millions of years and how that helps them do their jobs better.

- 54. Check different body tissues to see how their enzyme jobs are special.
- 55. Study if enzymes work along with cell division and DNA copying.
- 56. Test how small molecules that control enzymes help keep cells balanced and full of energy.
- 57. Compare different ways to trap enzymes on solids for lab or industry use.
- 58. Watch how enzymes change in older animals and how that changes metabolism.
- 59. Study how enzymes with more than one part help each other bind and work better.
- 60. Compare enzymes in baby, young, and adult animals to see how activity changes.
- 61. Use lab tools to see if electromagnetic waves or radiation change how enzymes work.
- 62. Study how enzymes move around inside cells and stay in the right place.
- 63. Compare treatments that replace missing enzymes in people with enzyme problems.
- 64. Watch how enzyme work changes with the seasons in animals from different places.
- 65. Study how an enzyme's shape-shifting helps it work better with its matching substrate.
- 66. Compare enzymes in healthy versus sick tissues to see if they can help doctors find diseases.
- 67. Use light to turn enzymes on or off and see how well this works.
- 68. Study how fast enzymes break down and how this controls their amount in the cell.
- 69. Try different ways to get enzymes out of plants or animals and see which one works best.
- 70. Test how deep-sea or high-up places with pressure affect enzyme speed.
- 71. Study how enzyme parts fit with their jobs and how that helps reactions happen.
- 72. Compare enzymes under stress like heat or harmful molecules and see how they hold up.
- 73. Change enzymes to make them work better using special lab evolution tools.

- 74. Look at how enzymes work together in pathways and control how fast or slow things move.
- 75. Try out different things that keep enzymes strong for long-term use.
- 76. See if enzymes help animals stay alive under stress by watching their speed and action.
- 77. Study how some enzymes can do more than one job and help many parts of metabolism.
- 78. Compare enzymes in full, empty, or exercising bodies and see how they change.
- 79. Study how the gut microbiome changes enzyme work in the body.
- 80. Look at how enzymes in special cell parts move things between steps in a pathway.
- 81. Try different ways to find new enzymes in nature and compare how well they work.
- 82. Check if more animals in one place change how enzymes work in their community.
- 83. Study how enzymes change shape when something binds far away to control activity.
- 84. Compare enzyme activity in different sicknesses to help doctors find better treatments.
- 85. Try using lab-built control systems to turn enzymes on and off for science uses.
- 86. See how enzyme changes from the past shape how cells build reaction networks.
- 87. Compare different tags that help find and purify enzymes in lab work.
- 88. Study how gene control changes enzymes by adding marks to DNA or changing structure.
- 89. See how some enzymes do more jobs than just speeding up reactions in the body.
- 90. Compare enzymes in animal or plant partners to see how they help each other live.
- 91. Use computers to guess how enzymes will work just from their protein code.
- 92. Look at how groups of enzymes pass stuff along without letting anything leak out.
- 93. Try different mixes of enzymes for farming and see which help crops grow or stay safe.
- 94. Watch if daily clocks in animals change how well enzymes work at different times.

- 95. Learn from nature's enzymes to design new lab-made ones for making chemicals.
- 96. Compare enzymes in very hot, cold, salty, or dry places to see how they survive.
- 97. Use light-controlled switches to make enzymes work at the right time.
- 98. Study how many enzymes together do things that a single one can't.
- 99. Compare mixes of enzymes that break down plants for fuel to see which ones are best.
- 100. Watch if each animal or plant has special enzyme patterns that help tell species apart.