Lesson Plan for Children’s Book: “Why Is Earth Sick?”

Grades K-2

**Lesson on Climate change and Greenhouse Gases:**

Video:

1. Short Film: Ozzy Ozone <https://www.youtube.com/watch?v=WKrPd-8CJBM> or <https://www.youtube.com/watch?v=VM-nHE_oGFU>

Visuals/PowerPoint:

1. “The story of the mean greenhouse gases” – power point/animations and quiz

Online learning game:

1. Greenhouse Gas Attack (good to play right after PowerPoint): <https://spaceplace.nasa.gov/greenhouse-gas-attack/en/#/review/greenhouse-gas-attack/game.swf>
2. NASA Climate Kids – Coral Bleaching <https://climatekids.nasa.gov/coral-bleaching/>

Activity:

1. Map with Velcro stickers or just regular stickers where can show environmental disasters and learn what is going on in different places of the world – Print out stickers at the end of this packet
2. Energy Game [file:///C:/Users/Jaidacyn/Downloads/Activitybook\_web.pdf](file:///C:\Users\Jaidacyn\Downloads\Activitybook_web.pdf)

Melting Ice and Sea Level Rise Experiments:

1. Ice melt on different color surfaces:

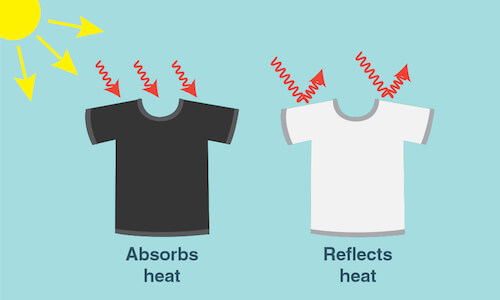
<https://www.need.org/Files/curriculum/sciencefair/ColorsAndHeat.pdf>

1. Sea Level Rise experiment - <https://www.jpl.nasa.gov/edu/learn/project/how-melting-ice-causes-sea-level-rise/>

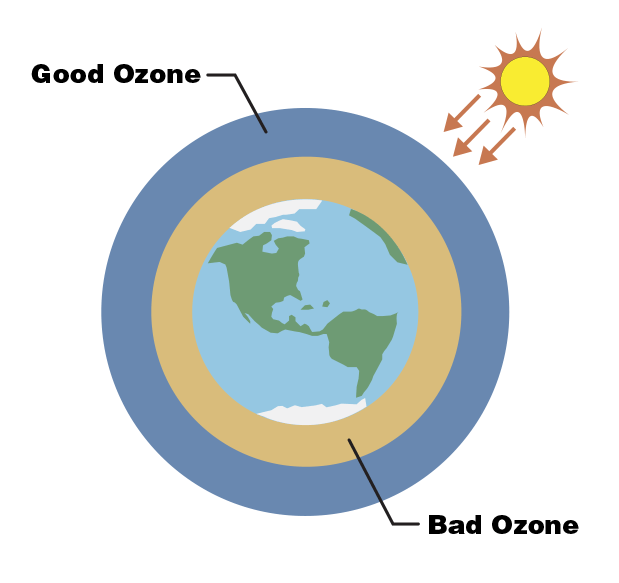
Climate Change Talking Points:

1. <https://docs.wixstatic.com/ugd/3687d6_6a513846e5954c238ccaadbf5694d77e.pdf>

Helpful diagrams:



*Credit: NASA/JPL-Caltech*



*Credit: NASA/JPL-Caltech*

<https://climatekids.nasa.gov/air-pollution/>

**Lesson on Water Scarcity:**

Worksheets:

1. Water Usage coloring book pdf - <https://thewaterproject.org/resources/elementary-school-lesson-plans/coloring2016.pdf>

**Lesson on Plants:**

Activities:

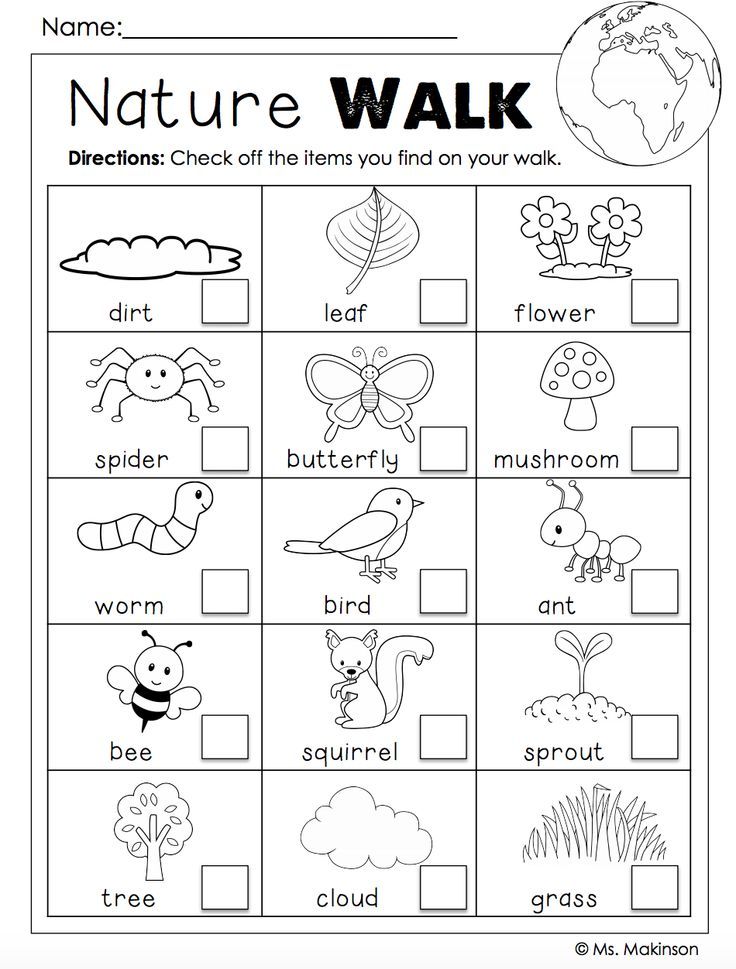
1. Start a garden at the school and take 10 minutes each day for kids to water plants.
2. Make seed paper (recycled paper) <https://climatekids.nasa.gov/seed-paper/>
3. Terrarium <https://climatekids.nasa.gov/mini-garden/> or succulents in a half cut plastic water bottle
4. Activity Guide: <https://kids.nationalgeographic.com/content/dam/kids/photos/other/books/worksheets/elementary/ngreaders_sheet_l1_cm2020_f.pdf>

Experiments:

1. Plants and sunlight experiment:

<https://www.need.org/Files/curriculum/sciencefair/EnergyforLife.pdf>

1. Sprouts need sunlight experiment:



**Lesson on Plastics in the Ocean:**

Videos:

1. Plastic videos <https://kids.nationalgeographic.com/explore/nature/kids-vs-plastic/>

Visuals/Powerpoint:

1. PowerPoint “this vs. that”
2. Slide show of animals being effected by plastic - <https://kids.nationalgeographic.com/explore/nature/kids-vs-plastic/>

Activity:

1. Recycled Bird Feeders- Have students bring a recycled bottle, old shoe, half of an orange peel, plastic milk tank, carton of milk or juice, plastic lemon net, or make a pine cone bird feeder (peanut butter and bird seed) <https://www.lifegate.com/bird-feeders-recycled-materials>
2. Make lunch bag <https://kids.nationalgeographic.com/explore/nature/kids-vs-plastic/lunch-bag/>
3. Make a cutlery holder <https://kids.nationalgeographic.com/explore/nature/kids-vs-plastic/cutlery-holder/>
4. Make paper straws <https://kids.nationalgeographic.com/explore/nature/kids-vs-plastic/paper-straws/>

Worksheets:

* Make “this not that worksheet” – see “This Not That” PowerPoint for ideas!

Pledge:

Take Plastic pledge <https://kids.nationalgeographic.com/explore/nature/kids-vs-plastic/>

**Lesson on Recycling:**

Activity:

1. Repurpose for a purpose (make handbags) Bring your own t-shirt -<https://climatekids.nasa.gov/tshirt-bag/>
2. Recycled half water bottle with succulent plant

Online learning games:

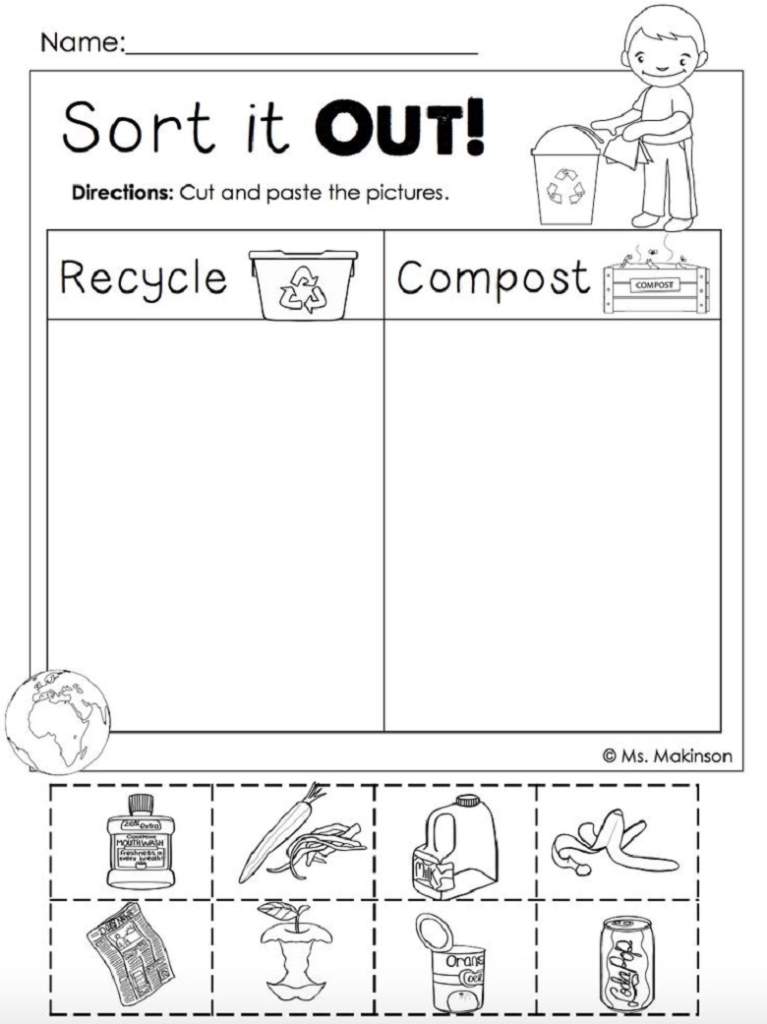
1. Recycle this virtual game – <https://climatekids.nasa.gov/recycle-this/>
2. Recycle Roundup Game – <https://kids.nationalgeographic.com/games/action-and-adventure/recycle-roundup-new/>

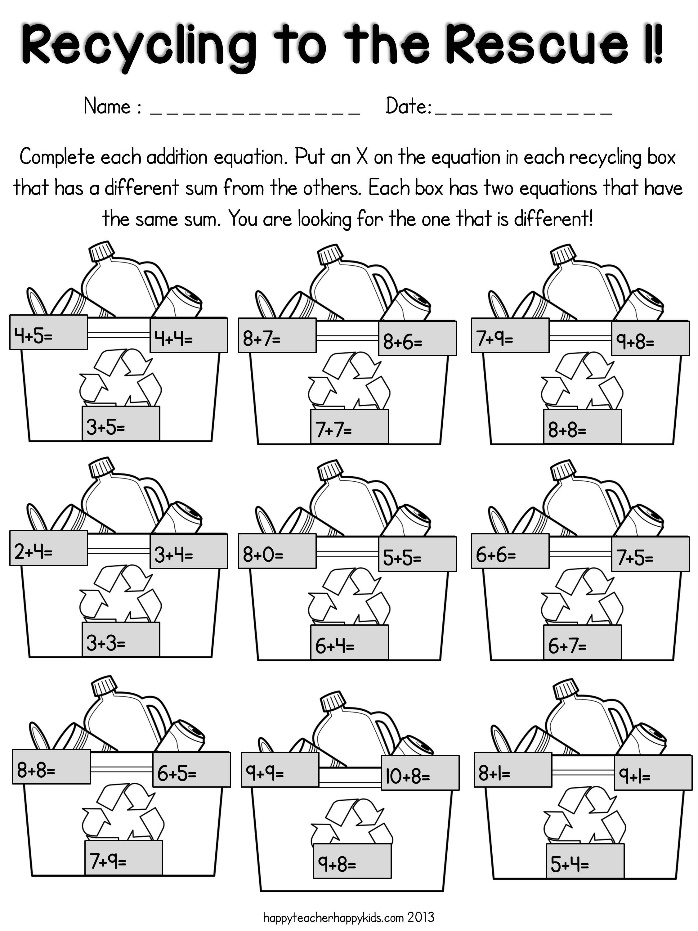
Experiment:

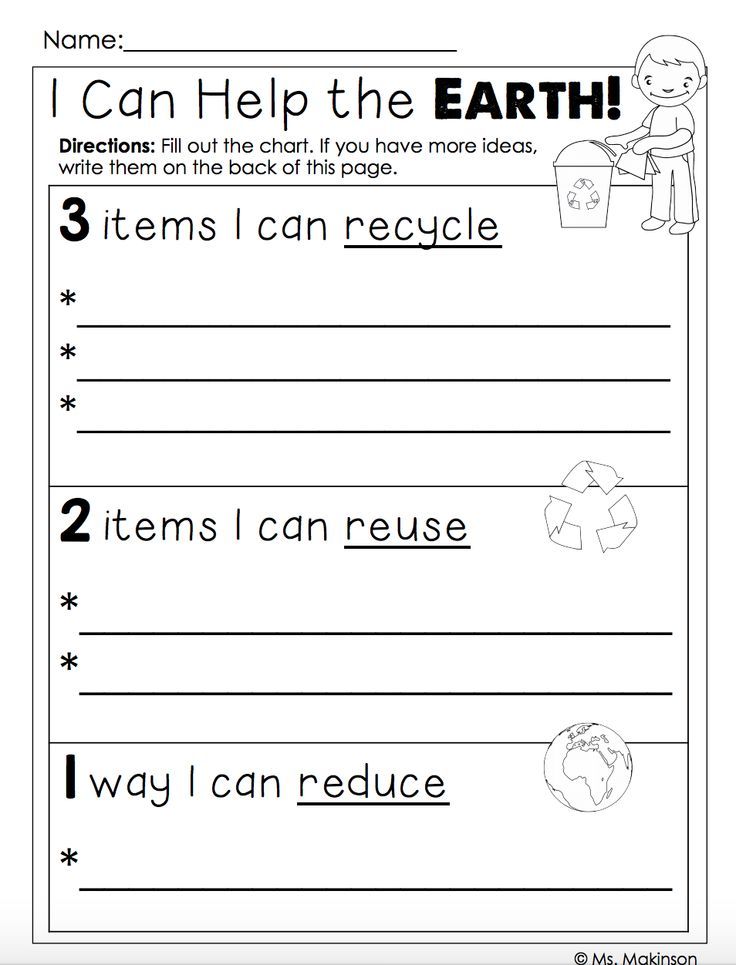
1. Recycled or New Paper experiments: <https://www.need.org/Files/curriculum/sciencefair/RecycledorNewPaper.pdf>

Worksheets:

1. Recycle Maze pdf. – The Water Project <https://thewaterproject.org/resources/elementary-school-lesson-plans/Recycling_Maze.pdf>







**Extra Earth Day celebration ideas:**

Pledge Board

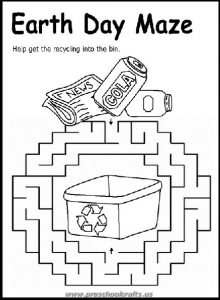
1. Have every kid trace and cut out their footprint and how they will reduce their environmental footprint (i.e. eat meat less, carpool, walk/ride bike more etc.) – If you would rather have pre-done footprints please see the footprint image at the end of this packet

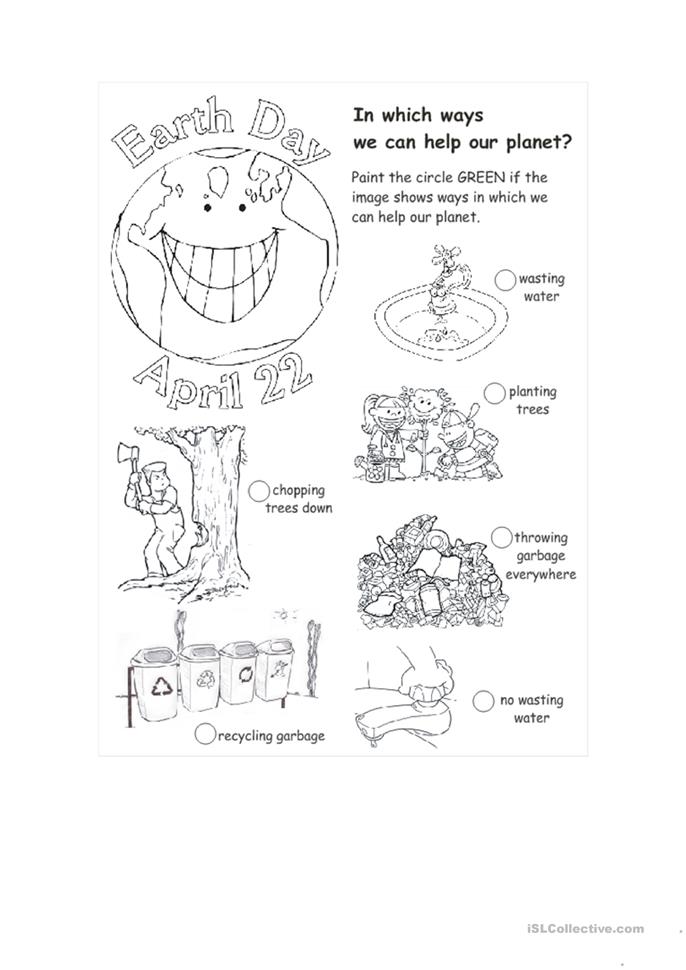
Activity:

1. Draw earth on paper plate or on news paper and write how you will help the earth. – can hang them up in the classroom
2. “Thank you Earth” – love letters to earth! Have kids write down why they are thankful for our earth!
3. Earth Day online quiz <https://kids.nationalgeographic.com/games/quizzes/earth-day-quiz-whiz/>

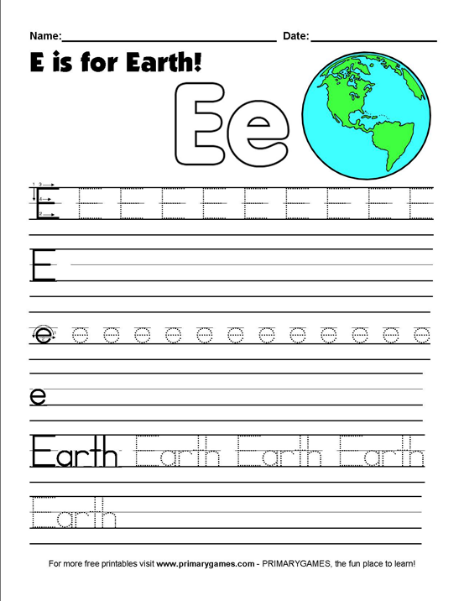
Holiday activity – pumpkin globe:

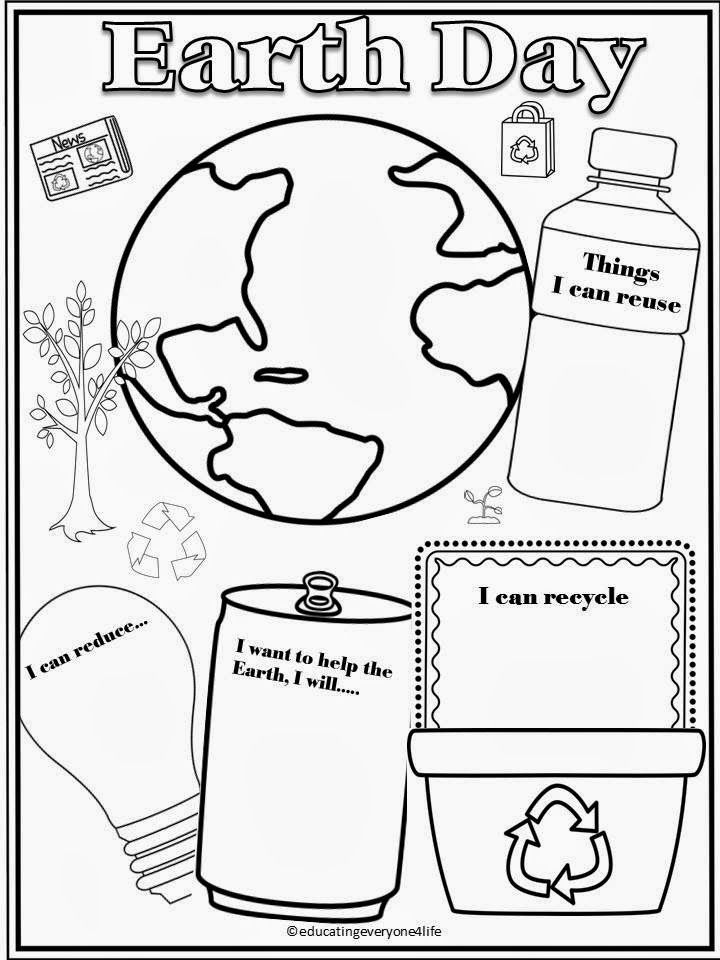


Earth Day Worksheets:

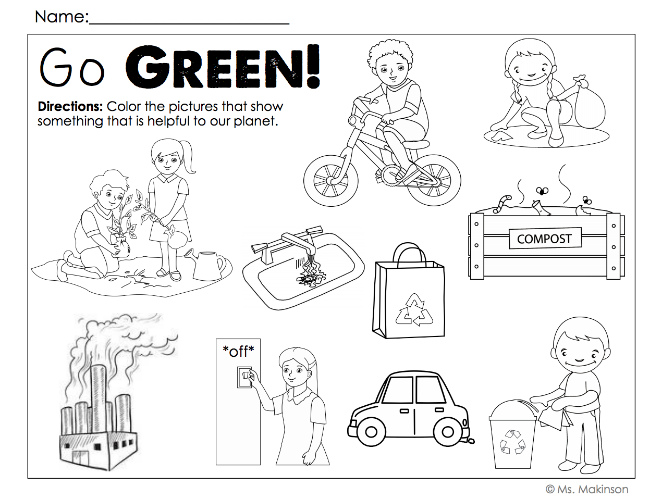












Video games <https://climatekids.nasa.gov/menu/play/>

Hang in Classroom:

Eco-friendly food guide “My Plate” <https://www.teacherspayteachers.com/Product/Earth-Friendly-Food-Guide-5189240>

10 ways to help nature <https://8a582501-a5d3-495d-a9f8-406cc007e6f3.filesusr.com/ugd/3687d6_291040f2551e40deb45d5f036994f47e.pdf>

10 ways kids can help earth <https://docs.wixstatic.com/ugd/3687d6_ada68436e6894d8a8338397f8ca9f1a7.pdf>

13 ways to save the earth <https://www.climaterealityproject.org/sites/default/files/APR%2018%20NGK-Climate%20Change%20tips_0.pdf>

Hang-ups on plastic:

<https://kids.nationalgeographic.com/content/dam/kids/photos/articles/Nature/H-P/KidsVsPlastic/plastic-free-gifts.pdf>

<https://kids.nationalgeographic.com/content/dam/kids/photos/articles/Nature/H-P/KidsVsPlastic/plastic-free-party.pdf>

<https://kids.nationalgeographic.com/content/dam/kids/photos/articles/Nature/H-P/KidsVsPlastic/plastic-free-school.pdf>

<https://kids.nationalgeographic.com/content/dam/kids/photos/articles/Nature/H-P/KidsVsPlastic/plastic-free-snacks.pdf>

<https://kids.nationalgeographic.com/content/dam/kids/photos/articles/Nature/H-P/KidsVsPlastic/plastic_summer-fun_v8.pdf>

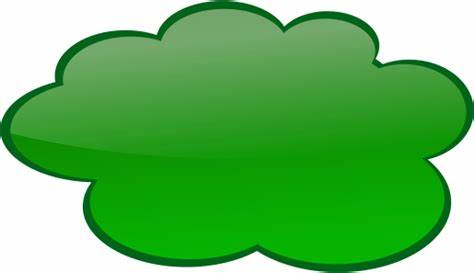
<https://kids.nationalgeographic.com/content/dam/kids/photos/articles/Nature/H-P/KidsVsPlastic/plastic-free-halloween.pdf>

<https://kids.nationalgeographic.com/content/dam/kids/photos/articles/Nature/H-P/KidsVsPlastic/plastic-free-restaurant-checklist.pdf>

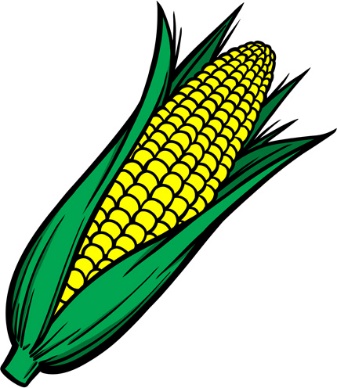
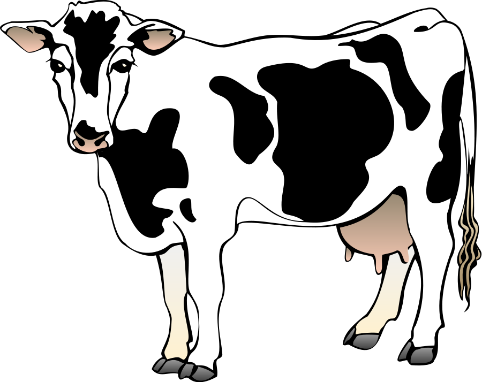
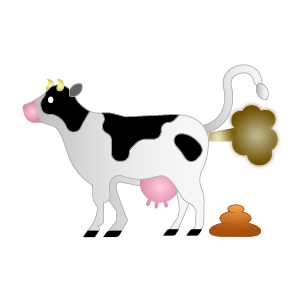
Other Info:

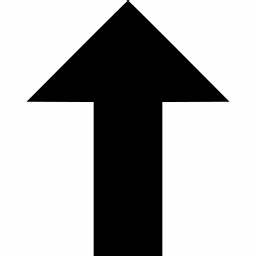
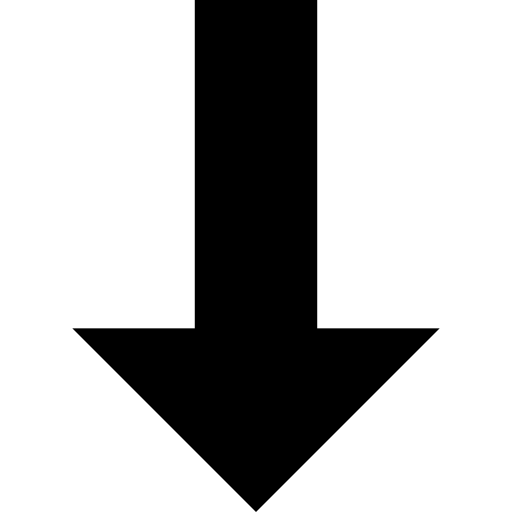
Why are veggies better than meat for the environment? <https://www.petakids.com/save-animals/eating-animals-ruins-planet/>

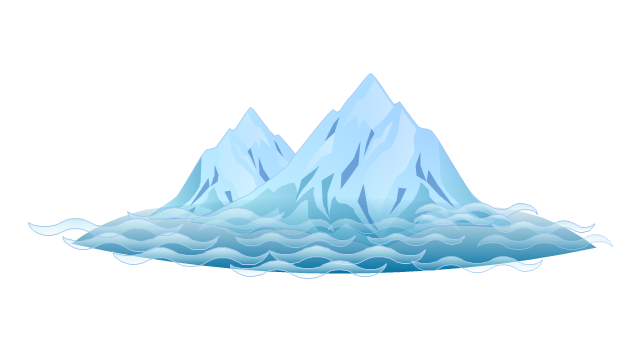


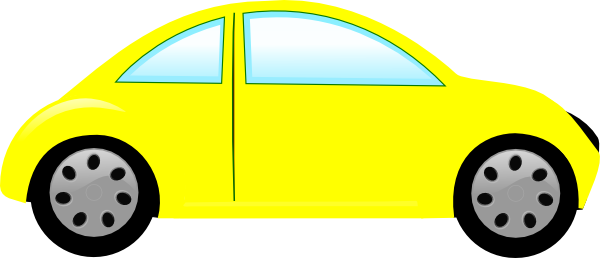


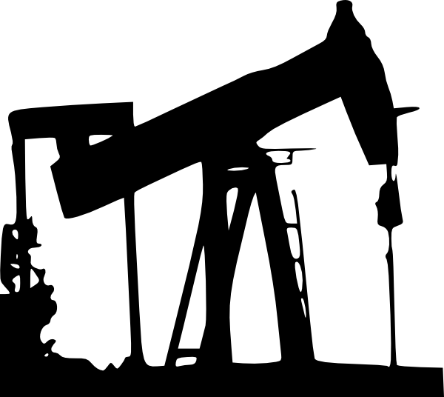


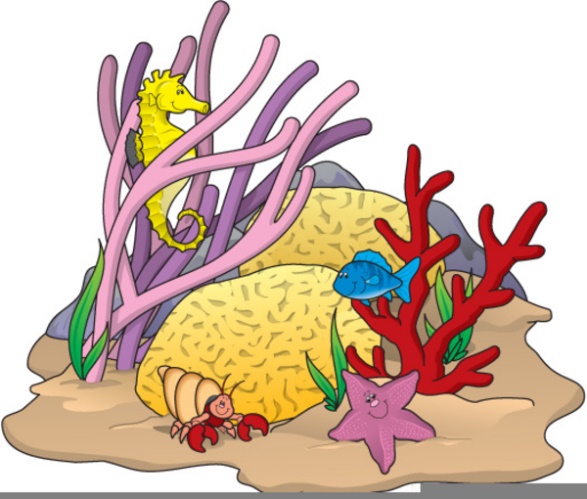
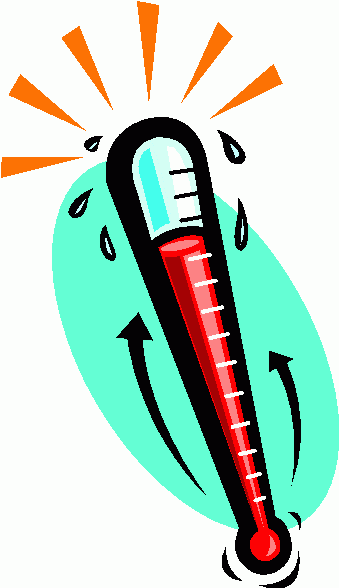










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