

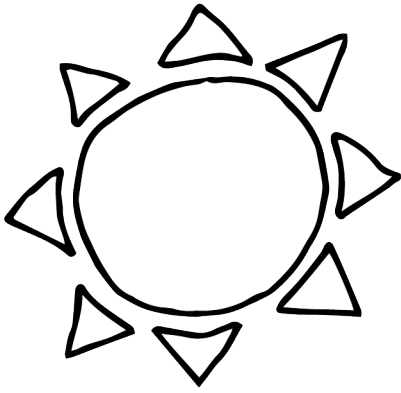


OREGON
DEPARTMENT OF
ENERGY

Michelle's Renewable Energy Adventure



Written and Illustrated by Jessica Brown



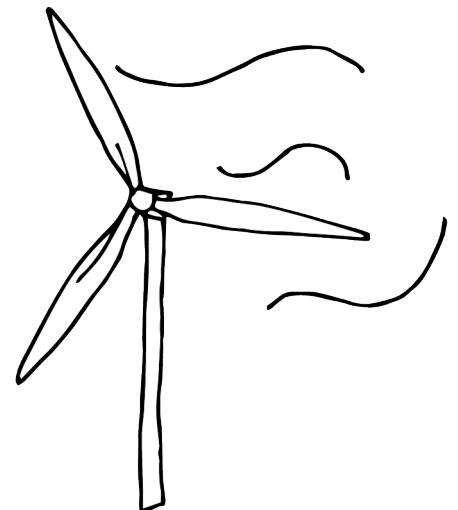
Michelle's Renewable Energy Adventure

Coloring & Activity Book

Written and illustrated by Jessica Brown

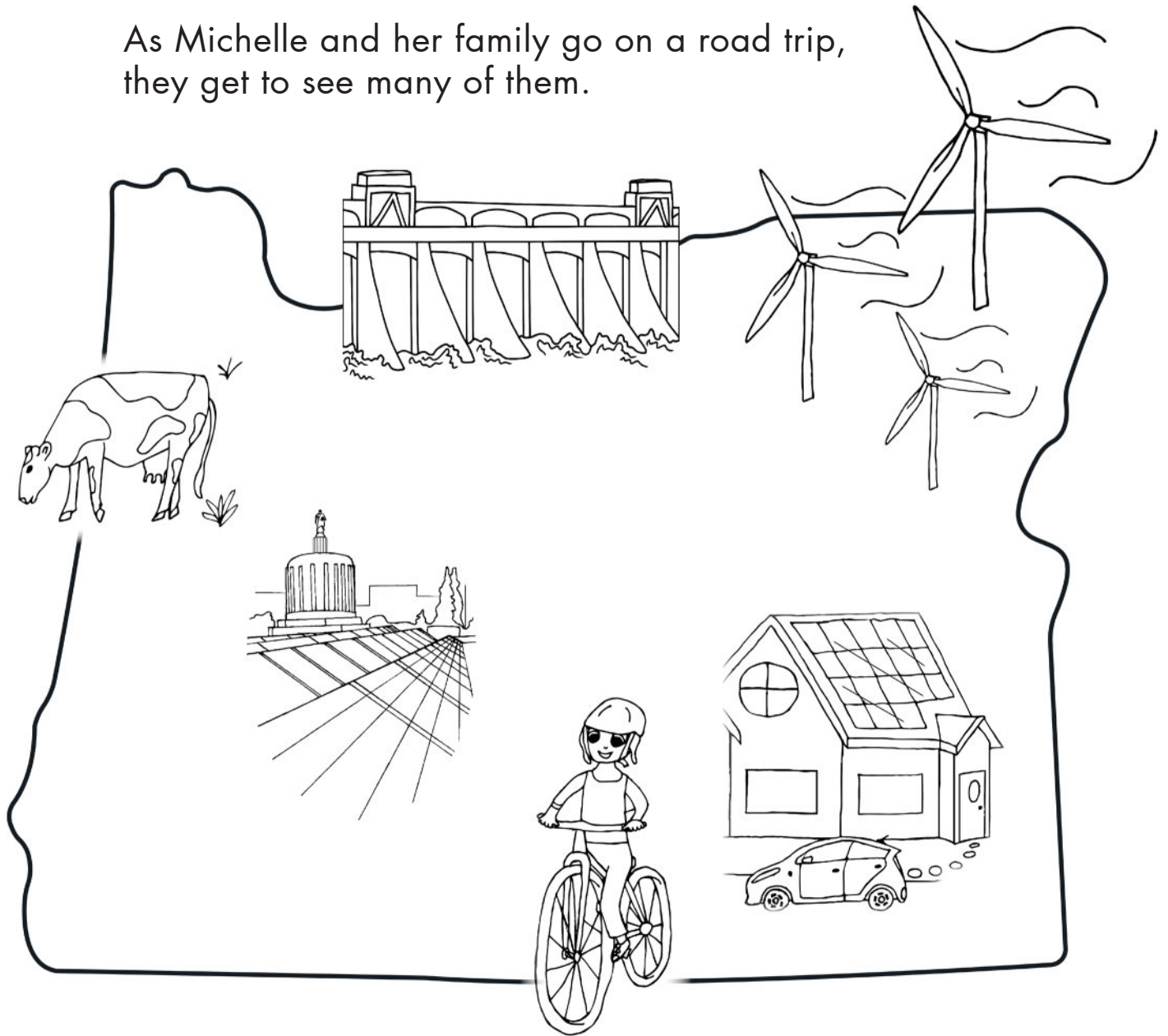


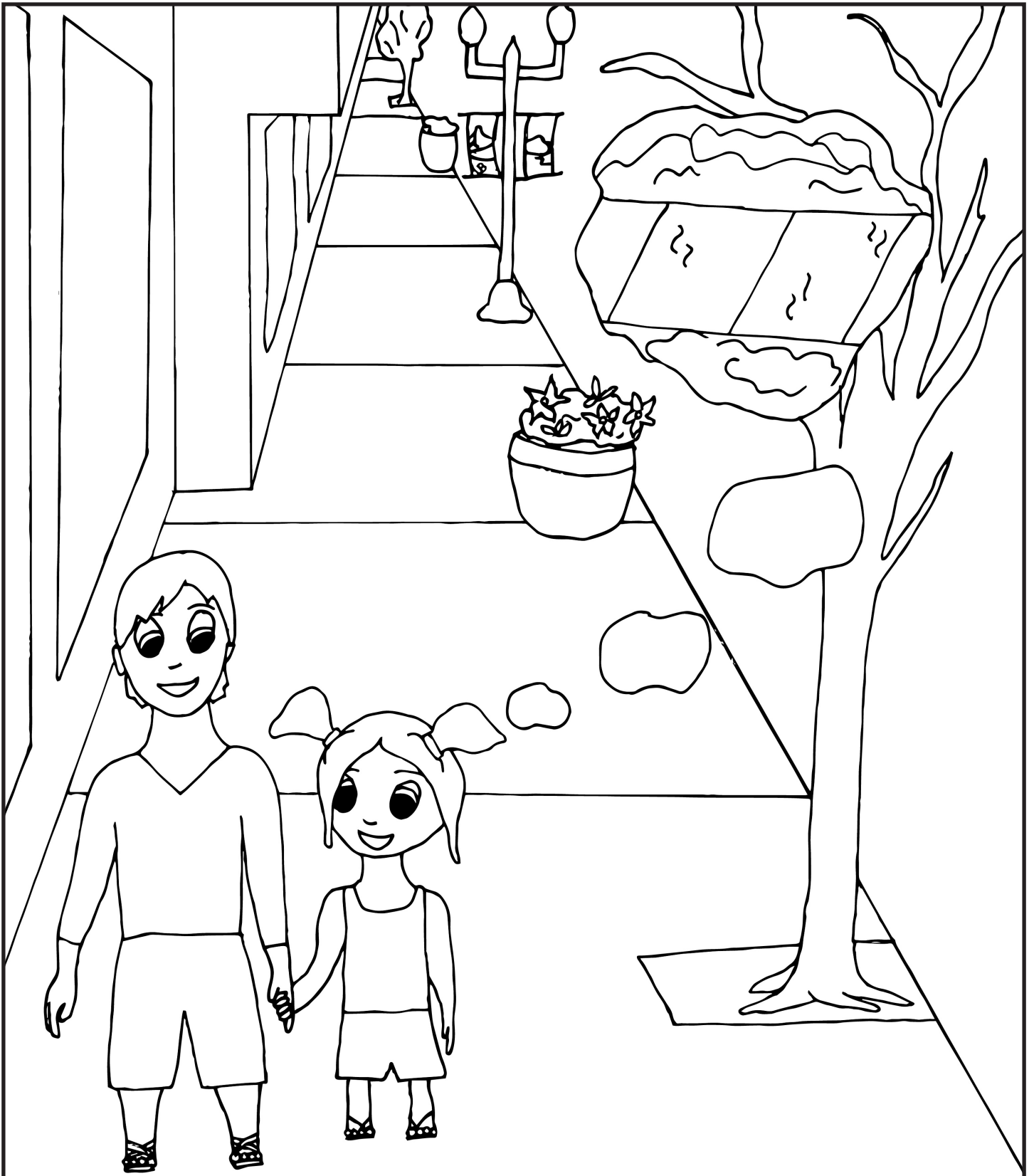
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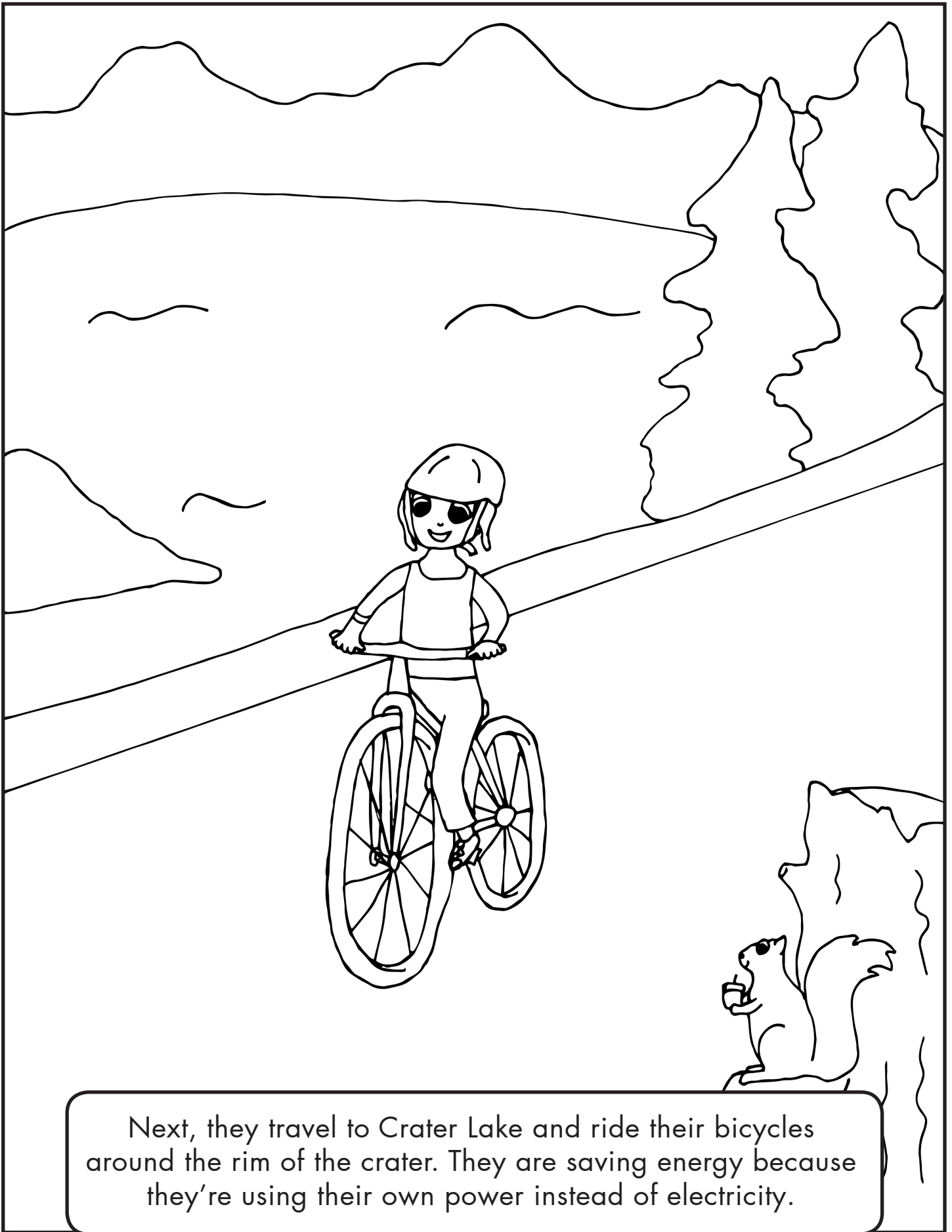
Oregon has many natural sources of renewable energy.

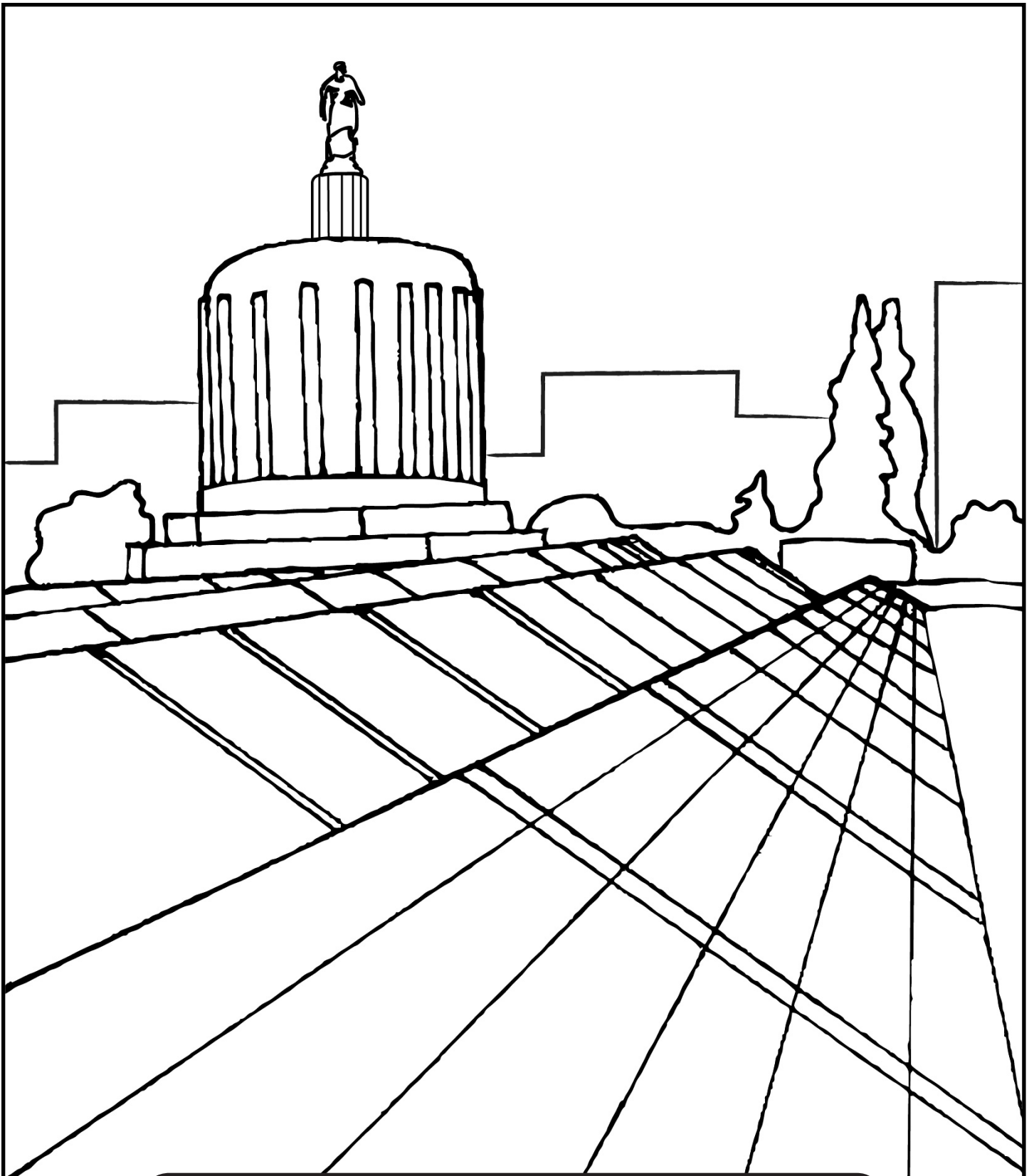
As Michelle and her family go on a road trip, they get to see many of them.





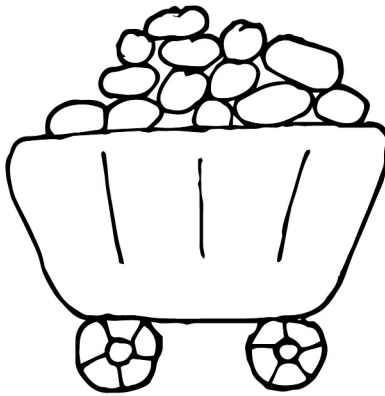
They travel to Klamath Falls. Some of the sidewalks are heated with warmth from underground, which is called geothermal energy. In the winter, there is no snow on those sidewalks!



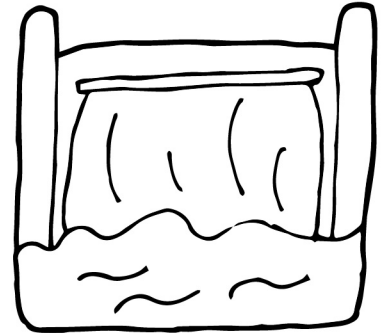


The next stop for Michelle's family is Salem. She notices solar panels on the Capitol Building. Solar panels generate energy from the sun.

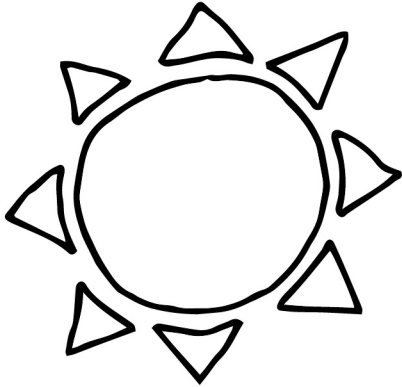
Coal



Hydropower



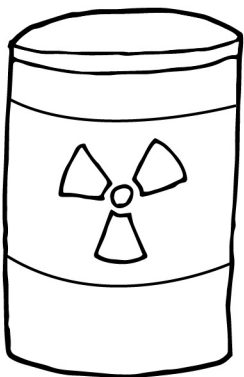
Solar



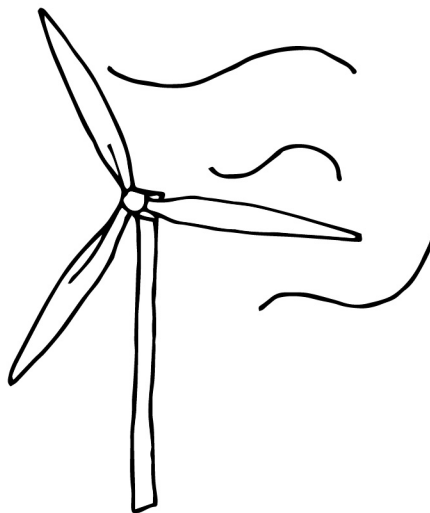
Renewable

Not Renewable

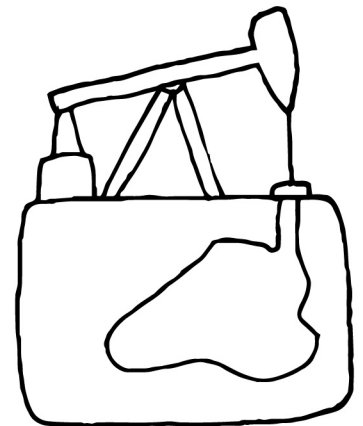
Nuclear



Wind

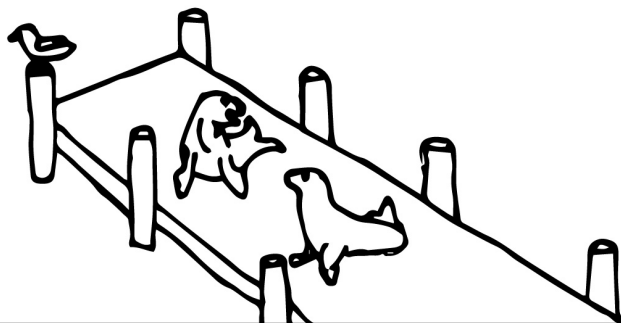
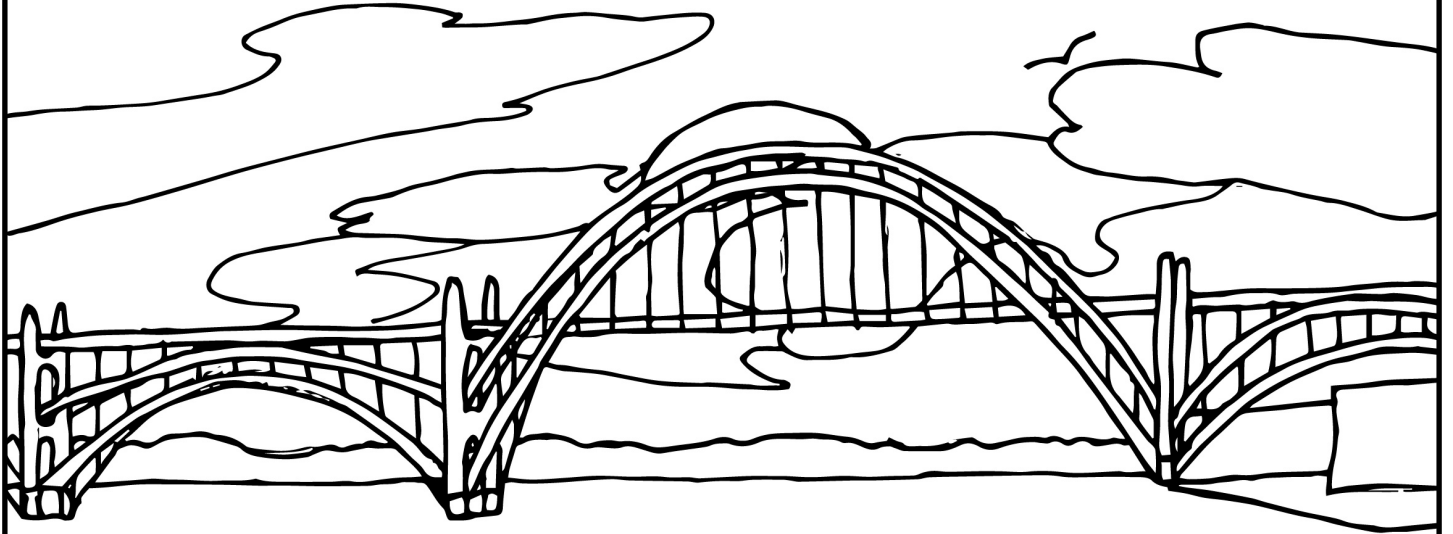


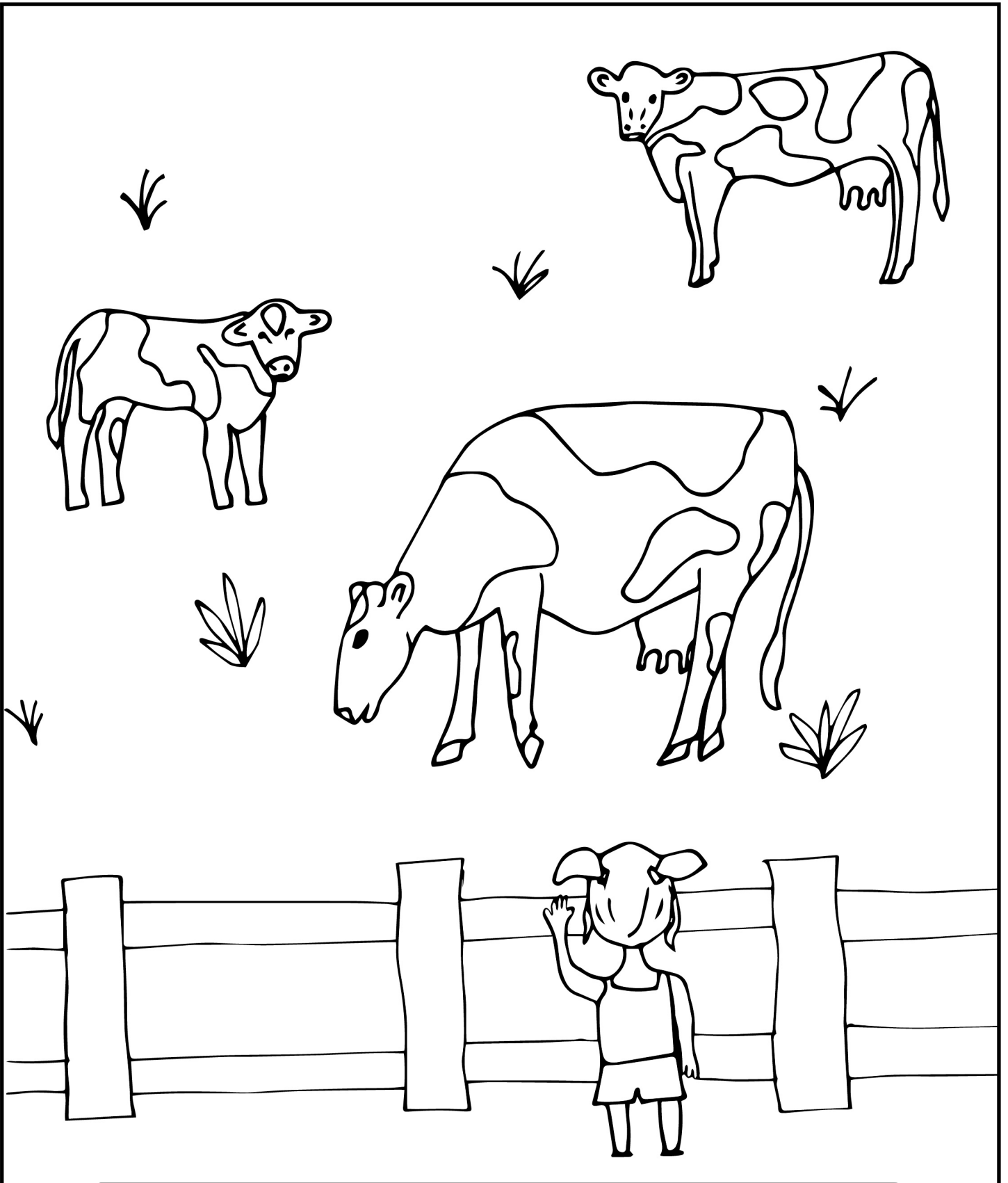
Fossil fuels



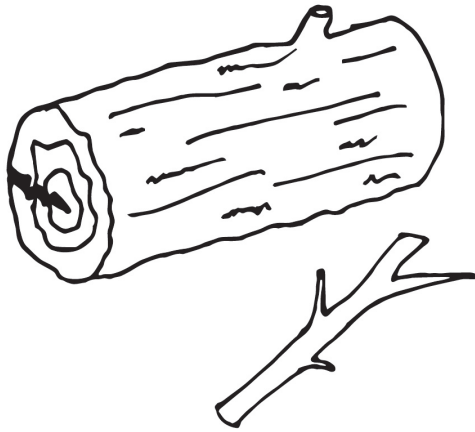
Match each energy resource to either renewable or not renewable.

In Newport, Michelle sees buoys in the ocean.
They are test buoys that can be used to generate electricity
from ocean waves.

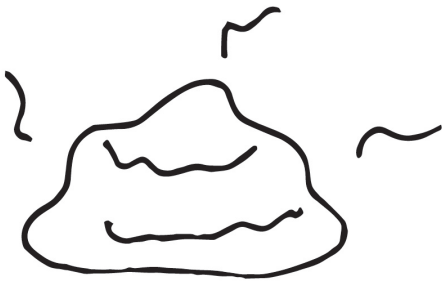




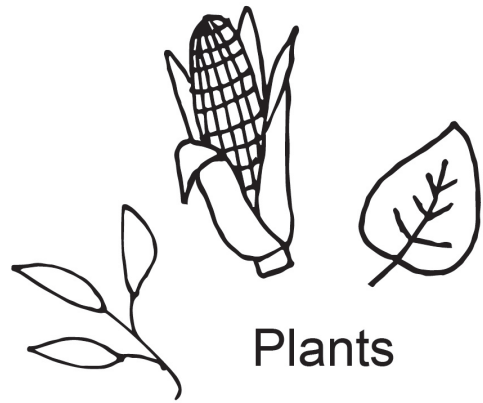
As they keep driving, they go through Tillamook County,
where there are many cows.
Poop from cows is one type of biomass.



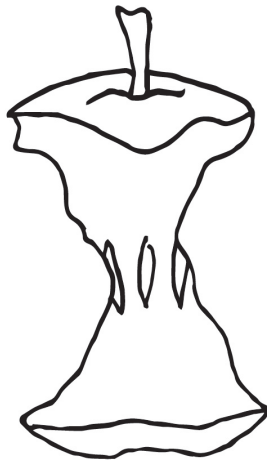
Wood



Poop

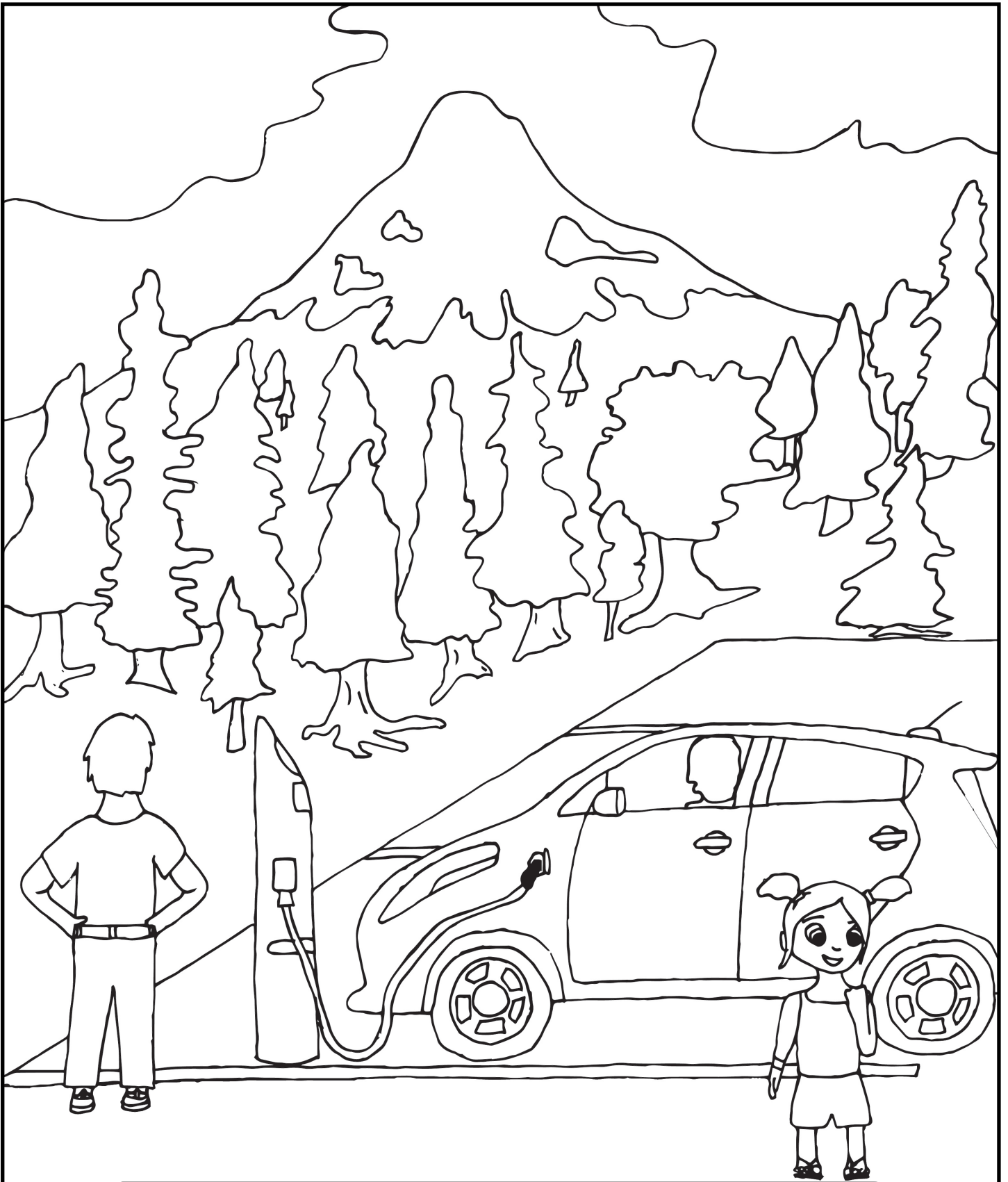


Plants



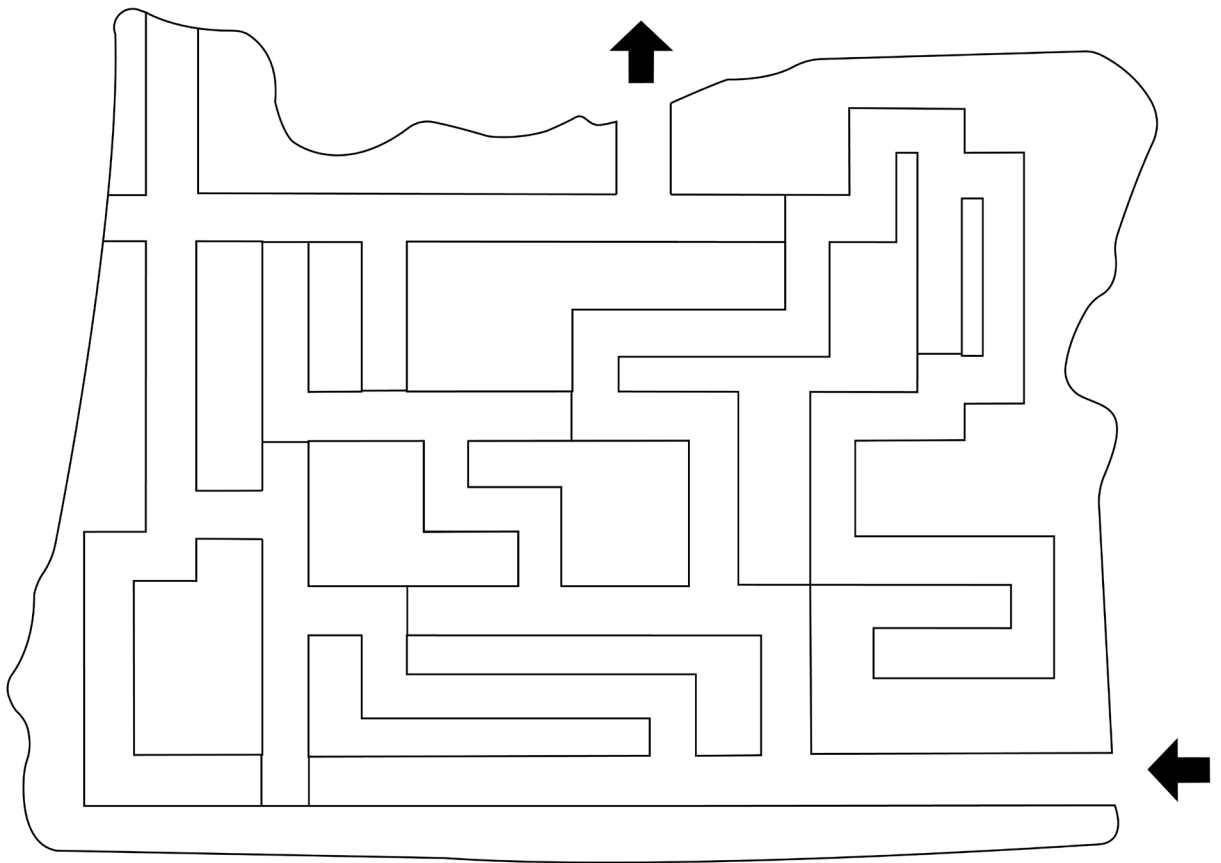
Food waste

Biomass is material that comes from plants or animals.
We can use the energy from biomass to make electricity
or heat homes and buildings.

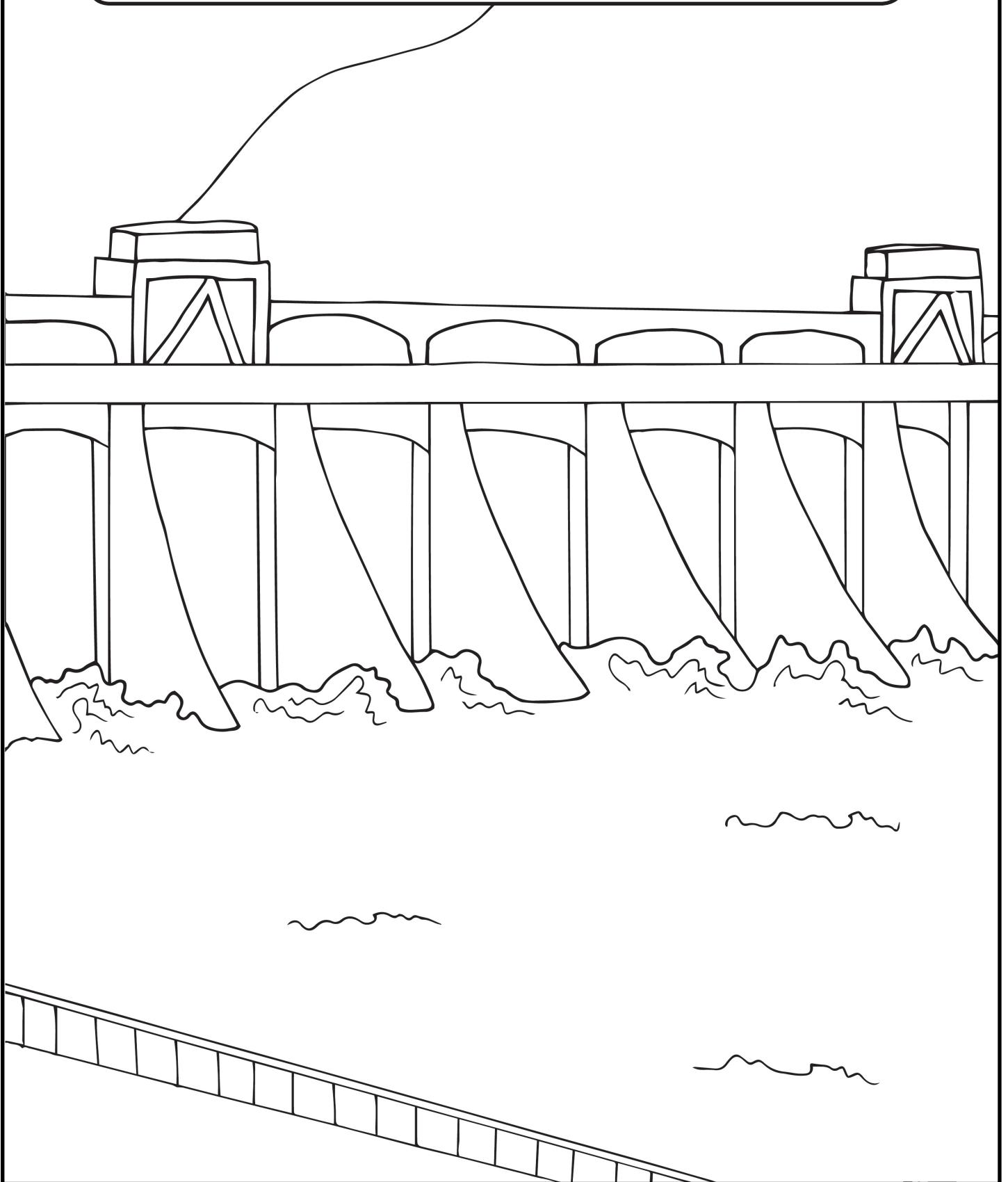


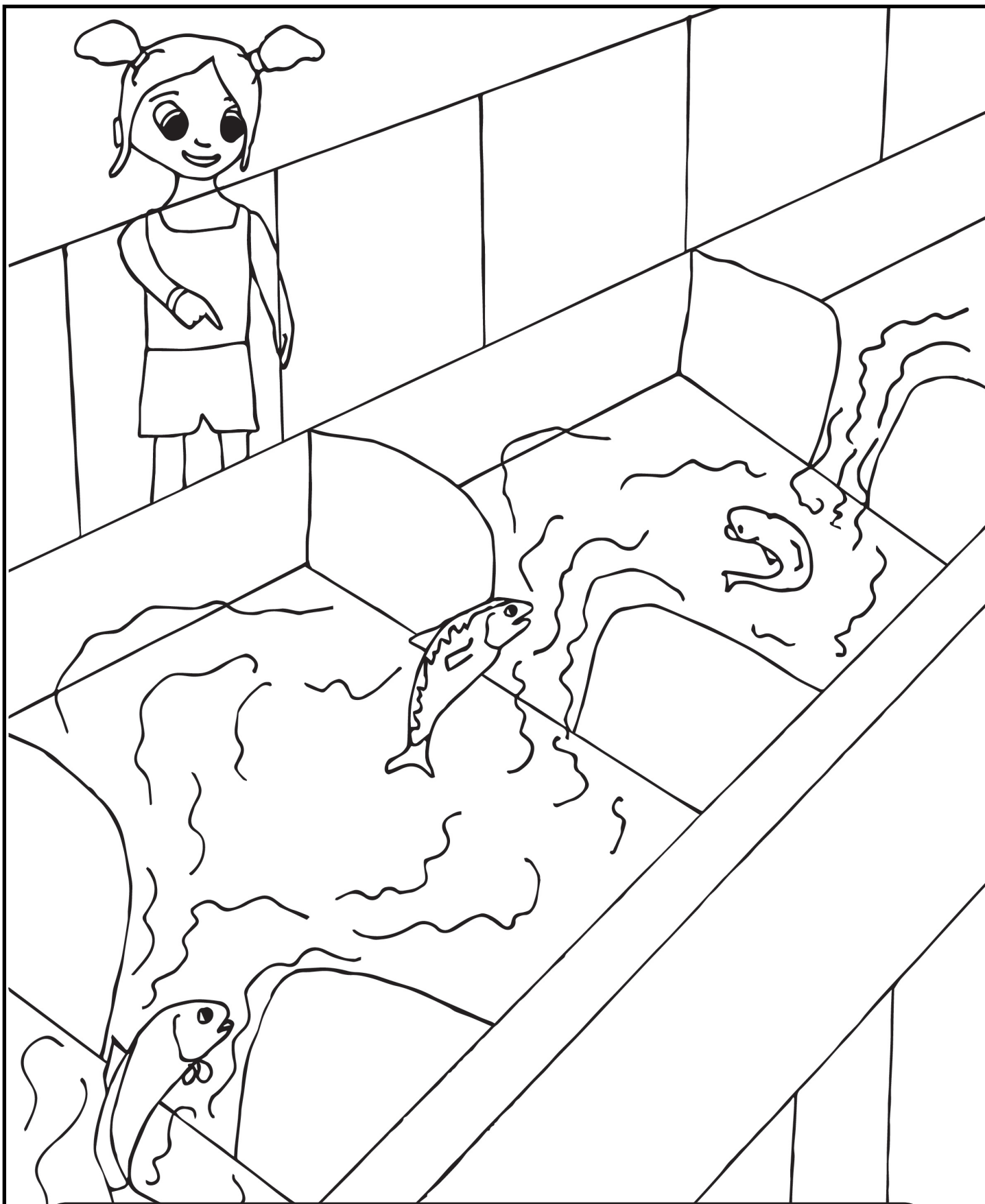
Since their car is electric, the family stops to recharge the battery near Mount Hood. After a quick break, the family is back on the road.

Solve the maze to see Michelle's journey through Oregon so far.



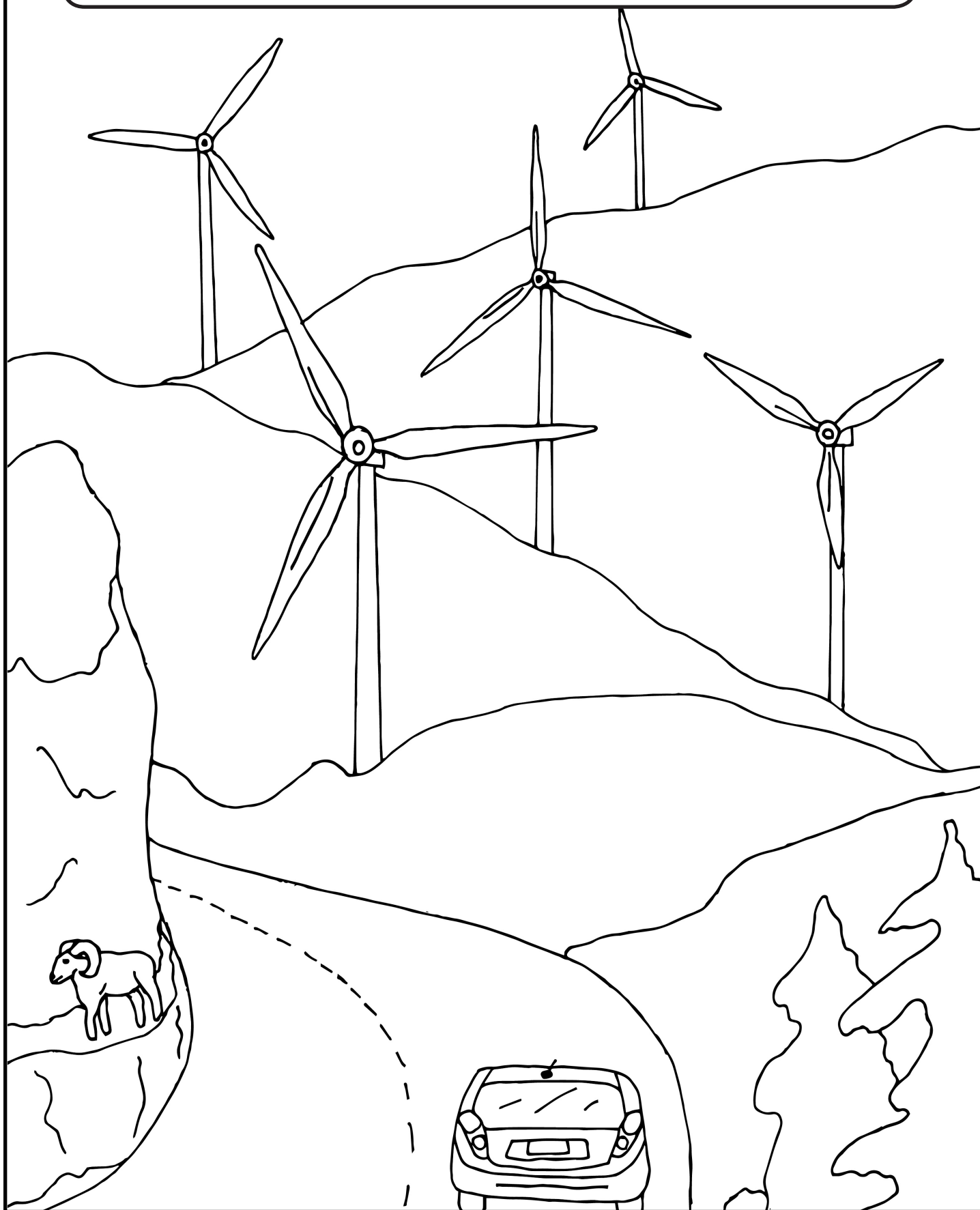
As they keep going, they see the Columbia River and the Bonneville Dam. Dams generate electricity from the power of moving water, which is called hydropower.



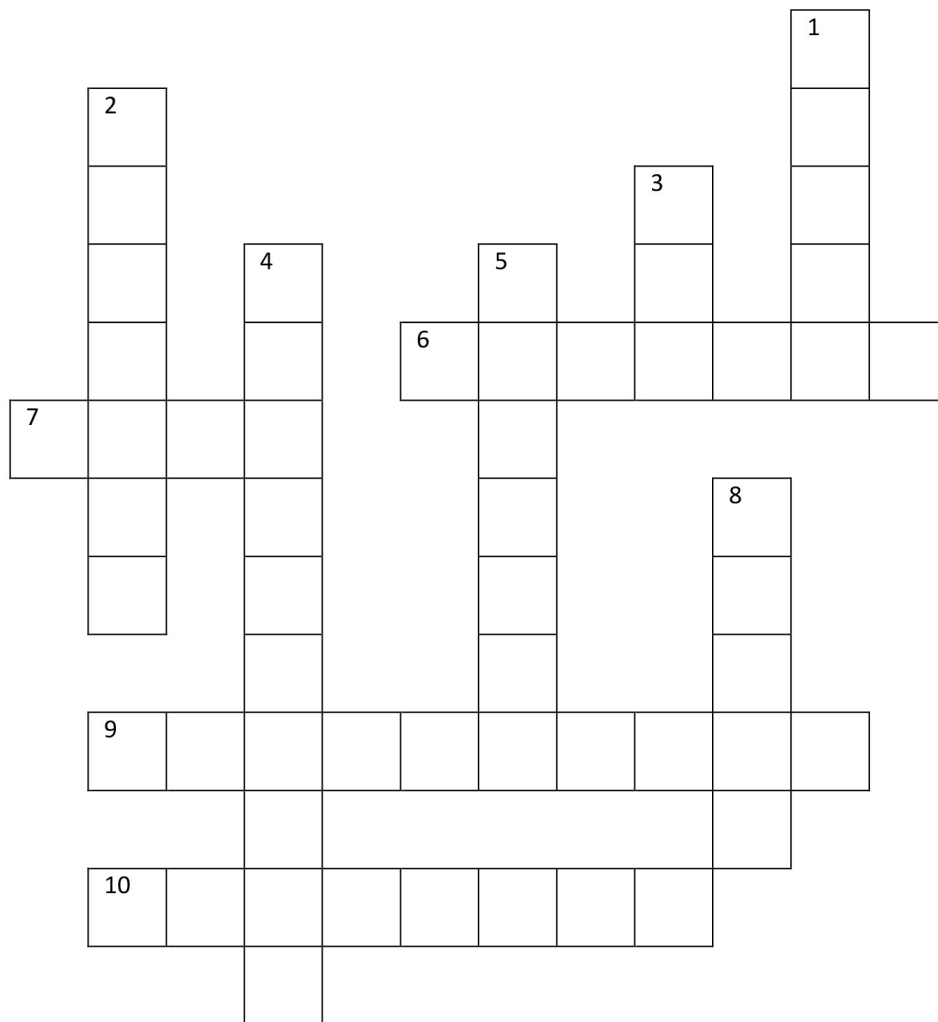


Michelle sees fish swimming up the fish ladder next to the dam.
Fish ladders help fish swim past dams safely.

Next, Michelle sees a group of turbines spinning in the wind.
Turbines also generate electricity.



Do you remember all the types of energy Michelle learned about?
Solve the crossword to find out!



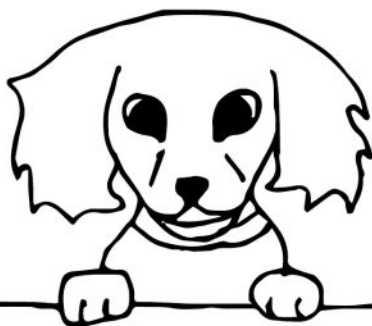
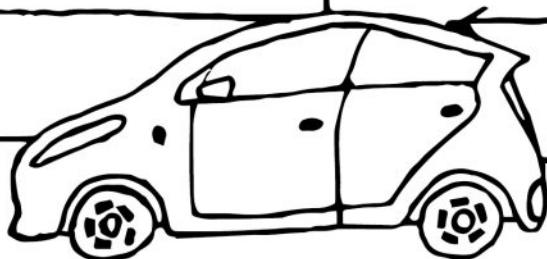
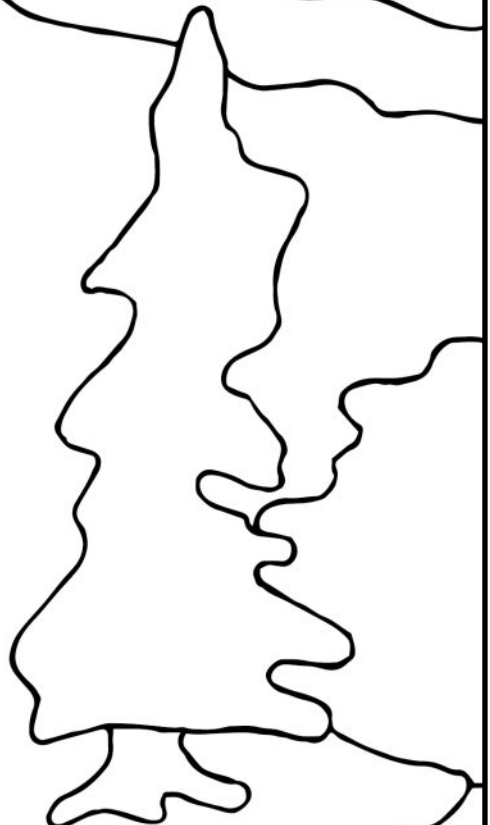
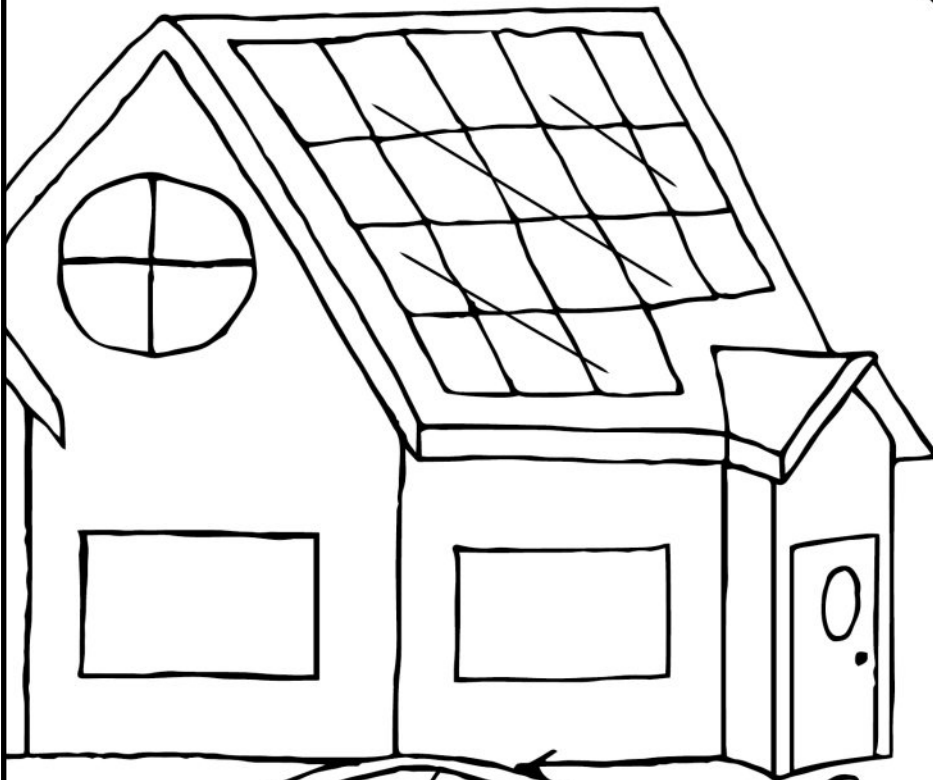
DOWN

1. Power can be generated from ocean ____.
2. A spinning structure that gets energy from the wind.
3. This structure captures the energy of moving water.
4. Power generated from rivers is ____.
5. To save energy, ride your ____.
8. Energy from the sun is ____ energy.

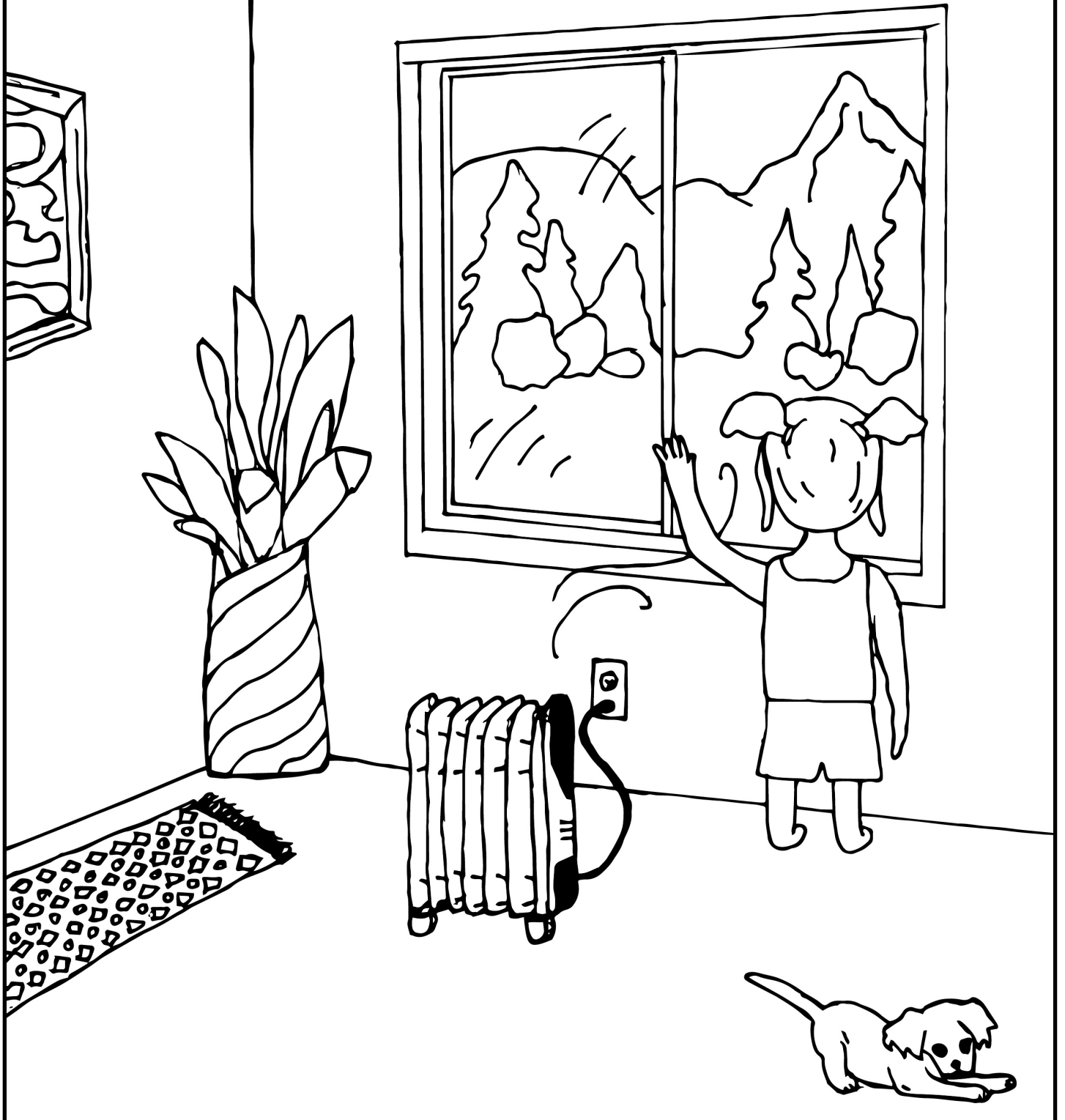
ACROSS

6. Poop from animals is one form of this type of energy.
7. This type of weather can generate power.
9. Energy from the earth's heat.
10. ____ cars run on electricity instead of gas.

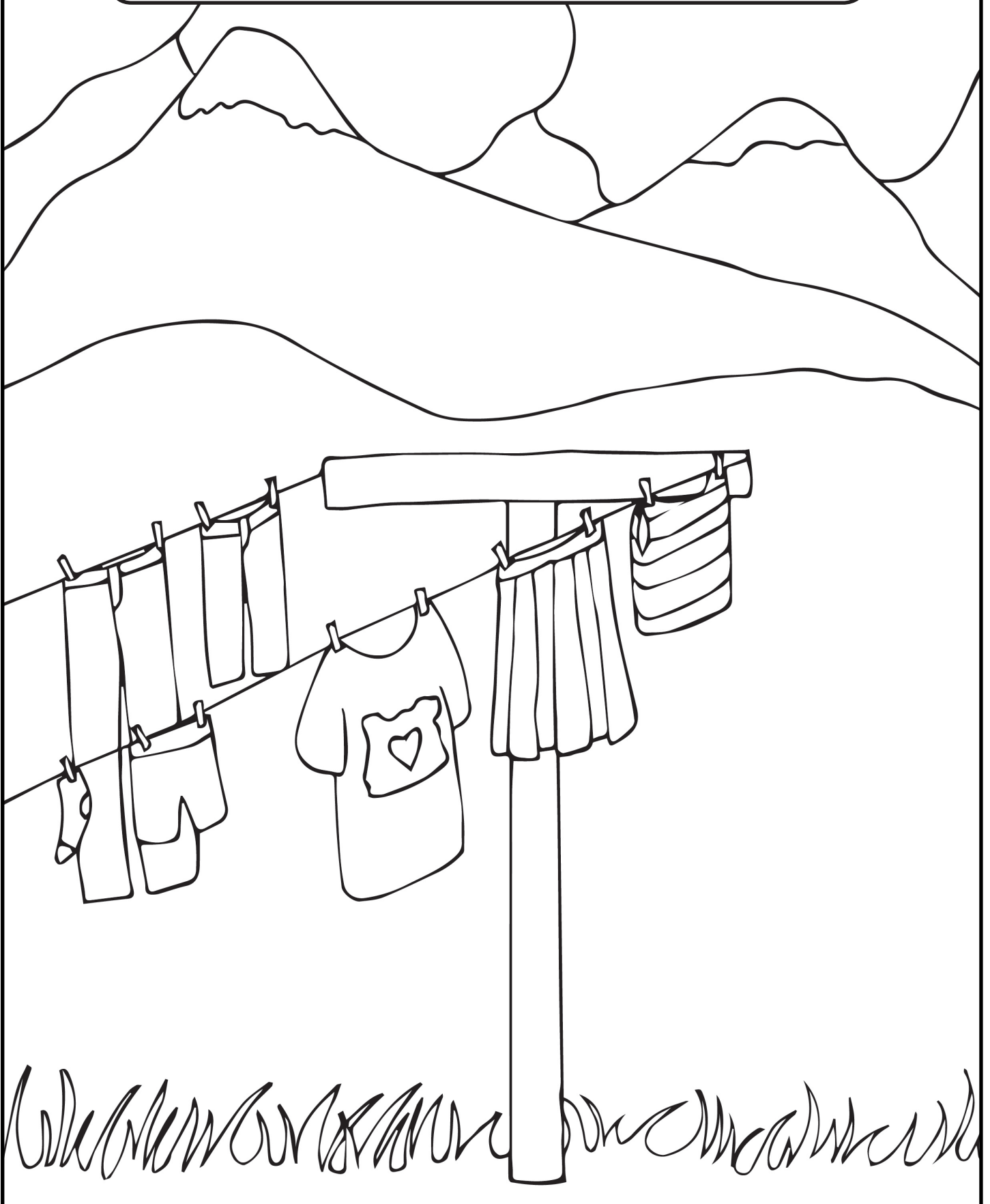
When they get home, Michelle remembers all of the valuable energy resources she saw.



To save energy, she never leaves windows open when the heat or air conditioning is on.



She also dries her clothes outside on a clothesline...
when it's not raining, anyway!



Draw your idea about how to save energy.



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This coloring and activity book was written and illustrated by Jessica Brown.

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También disponible en español.