Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_

Seed Dispersal WebQuest
“The apple may not fall far from the tree, but the seeds go a long way.”

**Introduction**
 Once seeds are produced, they need to reach the ground in order to grow into a new plant. To get there, they need to move to a new place. This is known as dispersal.
 There are many different ways seeds can move to a new place to grow. They can use water, wind, force, stick to animals, or be eaten by animals as part of a fruit.
 In this WebQuest, you will learn how different seeds have adaptations to be transported in different ways.

**Water Dispersal**
Go to <http://mbgnet.mobot.org/bioplants/seed.html>

Read the section titled *Floating in water*

1. Plants can use what bodies of water to get their seeds to float downstream?

2. Look at the picture in this section. What is this very large seed that can float?

3. Why do you think most coconut trees grow on beaches?

**Wind Dispersal**
Read the section titled *Wind dispersal*

4. What types of seeds get dispersed by the wind?

5. Why do plants that disperse seeds this way need to produce a lot of seeds?

Watch the video of the dandelion
6. What type of seed dispersal does it use? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Go to <https://www2.palomar.edu/users/warmstrong/plfeb99.htm>
Scroll down to the second brown box. Click on Gliders.

7. Draw a picture of a seed that glides in the air.

8. How many wings do glider seeds have? What do they resemble?

Go Back. Click on Parachutes.
9. Draw a picture of a parachute seed.

10. What very common plant, a weed in your yard, uses parachute seeds? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Go Back. Click on Helicopters.
11. Draw a picture of a helicopter seed.

12. Use your memory or help from a neighbor for this question, not the computer. What type of trees have helicopters?
 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dispersal by Force**
Go to the site <http://theseedsite.co.uk/sdforce.html>
17. Some plants provide their fruits (seedpods) with a mechanism that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the seeds from the pod by force.

**Sticking to Animals**
Go to the site <http://mbgnet.mobot.org/bioplants/seed.html>
Read the section *Animal dispersal*
 Look at the picture of the burr.

13. Do you think burrs can stick to animals? YES or NO

14. What structures do burrs have to help them get tangled in fur? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Dispersal by Fruits**
Go to the site <http://theseedsite.co.uk/sdanimal.html>
15. To attract the animals and birds and encourage them to act as seed carriers, plants often surround their seeds with a brightly-colored and sweet-tasting \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

16. Name 1 of the 3 that are shown for being sweet-tasting: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

On your own…List a specific example of each way of seed dispersal. It must be a different example then ones that are listed above in your WebQuest.

17. Water Dispersal –
18. Wind Dispersal –
19. Force Dispersal –
20. Animal Dispersal –