



**Put the other end of the bag over the box fan.**

1  
00:00:13,039 --> 00:00:09,290  
this may look like a big inflated trash

2  
00:00:15,499 --> 00:00:13,049  
bag well it sort of is but beyond that

3  
00:00:17,900 --> 00:00:15,509  
it is a unique setting used to introduce

4  
00:00:20,330 --> 00:00:17,910  
students to star patterns and let them

5  
00:00:22,460 --> 00:00:20,340  
create their own constellation stories

6  
00:00:24,710 --> 00:00:22,470  
this activity integrated science

7  
00:00:26,990 --> 00:00:24,720  
language arts and gives do these

8  
00:00:30,800 --> 00:00:27,000  
opportunity to show their creations to

9  
00:00:33,319 --> 00:00:30,810  
everyone on home made planetarium it's a

10  
00:00:37,100 --> 00:00:33,329  
great activity to use at school with a

11  
00:00:38,180 --> 00:00:37,110  
club during a family event but first we

12  
00:00:41,920 --> 00:00:38,190  
fulfilled

13  
00:00:44,990 --> 00:00:41,930

planetarium you'll need a few supplies a

14

00:00:48,080 --> 00:00:45,000

20 by 50 foot roll of 4 mil plastic

15

00:00:50,420 --> 00:00:48,090

sheet be sure to get at least 4 mil

16

00:00:53,750 --> 00:00:50,430

thickness any thinner and your planetary

17

00:00:56,600 --> 00:00:53,760

may let in too much light in addition

18

00:00:59,299 --> 00:00:56,610

you'll need a roll of utility tape a

19

00:01:02,599 --> 00:00:59,309

single black plastic trash bag ballpoint

20

00:01:05,090 --> 00:01:02,609

pen scissors and a box cutter it's best

21

00:01:07,880 --> 00:01:05,100

to have at least one person to help you

22

00:01:13,050 --> 00:01:07,890

construct the planetarium start by

23

00:01:21,310 --> 00:01:16,390

then fold it in half as shown to create

24

00:01:23,110 --> 00:01:21,320

a 20 by 25 foot rectangle next tape the

25

00:01:26,080 --> 00:01:23,120

top sheet to the bottom sheet on all

26

00:01:28,390 --> 00:01:26,090

three sides of the rectangle using a

27

00:01:30,970 --> 00:01:28,400

French fold to tape the sheets together

28

00:01:34,570 --> 00:01:30,980

will ensure that no separation occurs

29

00:01:37,210 --> 00:01:34,580

later you can see here that the tape

30

00:01:39,640 --> 00:01:37,220

will contact three surfaces of plastic

31

00:01:41,670 --> 00:01:39,650

when placed on a French fold though a

32

00:01:46,270 --> 00:01:41,680

bit tricky this technique is very

33

00:01:50,240 --> 00:01:46,280

important complete the taping on all

34

00:01:56,040 --> 00:01:53,340

once the taping is complete walk on all

35

00:01:58,500 --> 00:01:56,050

the tape scenes to secure them now it's

36

00:02:02,880 --> 00:01:58,510

time to attach the fan fold over one

37

00:02:05,250 --> 00:02:02,890

corner of the planetarium cut off the

38

00:02:09,270 --> 00:02:05,260

bottom of the plastic bag creating a

39

00:02:12,150 --> 00:02:09,280

tube place the open to a plastic bag

40

00:02:16,020 --> 00:02:12,160

down on the planetarium cut a hole the

41

00:02:19,410 --> 00:02:16,030

size of plastic bag in only one layer of

42

00:02:22,710 --> 00:02:19,420

the planetarium take one end the plastic

43

00:02:25,680 --> 00:02:22,720

bag tube to the hole put the other end

44

00:02:29,190 --> 00:02:25,690

of the plastic bag tube on the fan and

45

00:02:32,180 --> 00:02:29,200

take security fan should be facing so

46

00:02:34,650 --> 00:02:32,190

that it will glow into the planetarium

47

00:02:38,190 --> 00:02:34,660

turn the fan on high and watch the

48

00:02:41,100 --> 00:02:38,200

planetarium inflate once the planetarium

49

00:02:43,620 --> 00:02:41,110

is inflated turn the fan on low cut a

50

00:02:45,210 --> 00:02:43,630

hole for a door an inverted T design

51  
00:02:47,400 --> 00:02:45,220  
works nicely for a door

52  
00:02:50,610 --> 00:02:47,410  
I suggest placing the door as far away

53  
00:02:52,950 --> 00:02:50,620  
from the fan as is reasonable once the

54  
00:02:58,309 --> 00:02:52,960  
door is cut turn the fan back on high

55  
00:03:03,869 --> 00:03:01,110  
our ancient ancestors used nighttime

56  
00:03:05,819 --> 00:03:03,879  
stars to create stories this activity

57  
00:03:08,039 --> 00:03:05,829  
students will create their own stories

58  
00:03:17,190 --> 00:03:08,049  
and draw a pattern of stars on the

59  
00:03:19,020 --> 00:03:17,200  
lesson template before entering or

60  
00:03:21,179 --> 00:03:19,030  
taking students into the planetarium

61  
00:03:23,909 --> 00:03:21,189  
make sure you have a flashlight and

62  
00:03:26,369 --> 00:03:23,919  
scissors or box cutter for emergency

63  
00:03:28,259 --> 00:03:26,379

exits if needed black plastic has been

64

00:03:30,809 --> 00:03:28,269

checked by safety experts and is non

65

00:03:33,619 --> 00:03:30,819

flammable the fan provides very good

66

00:03:37,199 --> 00:03:33,629

ventilation for up to 15 students and

67

00:03:40,140 --> 00:03:37,209

now for the star patterns the ballpoint

68

00:03:42,539 --> 00:03:40,150

pen or straight paperclip can be used to

69

00:03:45,599 --> 00:03:42,549

punch holes in plastic with a twisting

70

00:03:48,119 --> 00:03:45,609

motion students use their constellation

71

00:03:51,390 --> 00:03:48,129

sheets as templates to transfer their

72

00:03:53,849 --> 00:03:51,400

constellation to the plastic seal from

73

00:03:58,820 --> 00:03:53,859

the inside the resulting holes appear to

74

00:04:03,800 --> 00:04:01,040

once everyone has created their

75

00:04:07,210 --> 00:04:03,810

constellations on the planetarium enjoy

76

00:04:09,440 --> 00:04:07,220

some time together sharing the stories

77

00:04:11,360 --> 00:04:09,450

students can display and read their

78

00:04:14,200 --> 00:04:11,370

story to others and have fun while

79

00:04:17,050 --> 00:04:14,210

practicing creative writing skills I

80

00:04:20,629 --> 00:04:17,060

like drawing the picture and then

81

00:04:22,550 --> 00:04:20,639

looking at the sky seeing everyone's

82

00:04:25,250 --> 00:04:22,560

um different constellations

83

00:04:28,250 --> 00:04:25,260

what I liked best was booking the stars

84

00:04:30,620 --> 00:04:28,260

in the sky the black plastic planetarium