

SPEEDY TIME

EPISODE-7

**MINUS EIGHTY DEGREES
LABORATORY FREEZER FOR ISS**



1
00:00:00,400 --> 00:00:01,468
>> HELLO, AND WELCOME TO

2
00:00:01,468 --> 00:00:03,436
ANOTHER SPEEDY TIME.

3
00:00:03,436 --> 00:00:04,137
TODAY WE'RE GOING TO TALK

4
00:00:04,137 --> 00:00:05,538
ABOUT ONE OF THE MOST USEFUL

5
00:00:05,538 --> 00:00:06,673
TOOLS WE HAVE ON THE SPACE

6
00:00:06,673 --> 00:00:09,075
STATION: THE MINUS EIGHTY

7
00:00:09,075 --> 00:00:12,178
LAB FREEZER ISS-- MELFI--

8
00:00:12,178 --> 00:00:13,947
OR AS I LIKE TO CALL IT,

9
00:00:13,947 --> 00:00:15,815
THE FREEZER OF AWESOMENESS.

10
00:00:15,815 --> 00:00:16,549
THE SPACE STATION IS FOR

11
00:00:16,549 --> 00:00:17,283
SCIENCE, AND WE WANT TO

12
00:00:17,283 --> 00:00:18,118
GET ALL THESE SAMPLES WE TAKE

13
00:00:18,118 --> 00:00:19,018

BACK DOWN TO THE GROUND.

14

00:00:19,018 --> 00:00:19,919
TO DO THAT, WE NEED A BIG

15

00:00:19,919 --> 00:00:20,653
FREEZER, AND THAT'S WHY

16

00:00:20,653 --> 00:00:21,454
WE HAVE THIS BABY.

17

00:00:21,454 --> 00:00:22,455
IT USES A BRAYTON CYCLE

18

00:00:22,455 --> 00:00:23,390
WITH A WEE LITTLE MOTOR

19

00:00:23,390 --> 00:00:24,891
SPINNING AT 87,000 RPM--

20

00:00:24,891 --> 00:00:25,625
THAT'S FAST-- TO GET

21

00:00:25,625 --> 00:00:27,093
THESE FREEZERS DOWN TO ALMOST

22

00:00:27,093 --> 00:00:28,194
100 DEGREES BELOW ZERO.

23

00:00:28,194 --> 00:00:29,629
THERE'S FOUR 75-METER

24

00:00:29,629 --> 00:00:31,164
CHAMBERS IN EACH MELFI,

25

00:00:31,164 --> 00:00:32,198
AND WE HAVE THREE MELFIs.

26
00:00:32,198 --> 00:00:32,766
WE HAVE A BUNCH OF OTHER

27
00:00:32,766 --> 00:00:33,500
LITTLE FREEZERS, TOO, BUT

28
00:00:33,500 --> 00:00:34,367
THIS IS THE BIG DADDY.

29
00:00:34,367 --> 00:00:35,735
SO IT'S SO COLD WE HAVE TO

30
00:00:35,735 --> 00:00:36,503
WEAR THESE FASHIONABLE

31
00:00:36,503 --> 00:00:37,070
WHITE GLOVES.

32
00:00:37,070 --> 00:00:38,238
DO YOU REMEMBER IN

33
00:00:38,238 --> 00:00:38,905
"A CHRISTMAS STORY" WHERE

34
00:00:38,905 --> 00:00:39,439
HE STUCK HIS TONGUE

35
00:00:39,439 --> 00:00:40,507
TO THE FLAGPOLE?

36
00:00:40,507 --> 00:00:41,274
THAT'S PRETTY MUCH HOW IT IS

37
00:00:41,274 --> 00:00:41,908
IF YOU PUT YOUR HAND ON

38
00:00:41,908 --> 00:00:42,675

ONE OF THESE.

39

00:00:42,675 --> 00:00:43,710

SO TO GET SAMPLES BACK DOWN

40

00:00:43,710 --> 00:00:44,711

TO THE GROUND, THE MELFI

41

00:00:44,711 --> 00:00:45,912

COOLS DOWN THESE WONDERFUL

42

00:00:45,912 --> 00:00:46,646

LITTLE THINGS CALLED

43

00:00:46,646 --> 00:00:47,414

ICE BRICKS.

44

00:00:47,414 --> 00:00:48,114

AND THEN WE PUT THESE

45

00:00:48,114 --> 00:00:50,016

IN THESE SUPER COOLERS

46

00:00:50,016 --> 00:00:50,850

AND THEN SEND THEM BACK TO

47

00:00:50,850 --> 00:00:51,618

THE GROUND SO THAT ALL OF OUR

48

00:00:51,618 --> 00:00:52,452

SCIENCE CAN BE STUDIED,

49

00:00:52,452 --> 00:00:53,219

AND HOPEFULLY WE FIND

50

00:00:53,219 --> 00:00:55,388

SOME COOL RESULTS

51
00:00:55,388 --> 00:00:57,157
OUT OF OUR EXPERIMENTS.

52
00:00:57,157 --> 00:00:57,891
I ACTUALLY HAVE A SAMPLE

53
00:00:57,891 --> 00:00:58,725
THAT I HAVE TO PUT IN ONE.

54
00:00:58,725 --> 00:00:59,459
BUT TO MAKE IT MORE DRAMATIC

55
00:00:59,459 --> 00:01:00,326
AND AWESOME, WE'VE TURNED OUT

56
00:01:00,326 --> 00:01:01,027
THE LIGHTS, AND WE HAVE

57
00:01:01,027 --> 00:01:01,694
BACKLIGHTING, SO IT'LL JUST

58
00:01:01,694 --> 00:01:02,328
LOOK COOL.

59
00:01:02,328 --> 00:01:03,363
COME ON-- LET'S CHECK IT OUT!

60
00:01:16,543 --> 00:01:18,611
AND THAT, MY FRIENDS, IS

61
00:01:18,611 --> 00:01:20,780
THE AWESOME SUPER FREEZER

62
00:01:20,780 --> 00:01:21,548
THAT WE HAVE ON

63
00:01:21,548 --> 00:01:22,749

THE SPACE STATION.