

## **Beavers and Cubs Sessions**

### **This session works towards:**

- Beavers Space Activity Badge
- Cubs Astronomer Activity Badge

### **Plan for the session:**

**0 - 5 minutes: Introduction to the activity**

**5 - 10 minutes: Talk about stars, the night sky and relevant badges**

**10 - 45 minutes: Main activity (Activity 1 for Beavers/Cubs and Activity 2 for Scouts/Explorers)**

**45 - 55 minutes: Time for any questions and making extra star tubes**

**55 - 60 minutes: Wrap up and close**

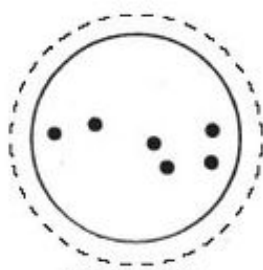
### **Activity One - Star Tubes**

#### **You will need:**

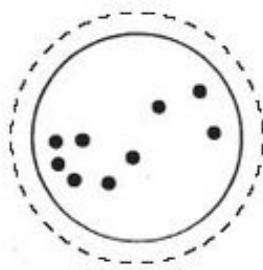
- Cardboard tubes (e.g. toilet roll or kitchen roll tubes). You'll need one for each star tube.
- Black paper or card
- A pin
- A pen
- Elastic bands
- A torch

#### **Instructions:**

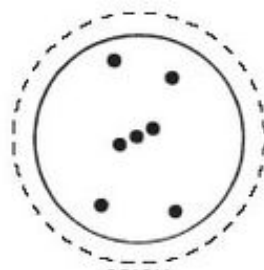
1. Cut pieces of black paper large enough to be folded over the tubes.
2. Choose your star constellations. Depending on the width of your tubes, you might need to choose small ones so they'll fit.
3. Draw the constellation on the black paper – make sure you hold it over the top of the tube so you keep within the right size. See the next page for some constellation suggestions!
4. Use the pin to make holes in the paper. You need the holes to be a reasonable size so the light can get through.
5. Place the paper over the top of a cardboard tube (make sure the constellation is facing the right direction when you look through the other end of the tube). Secure it to the end of the tube with an elastic band.
6. You can either view your constellations by:
  - a. Looking through the clear end of the tube and pointing the covered end towards a light
  - b. Going into a dark room and shining a torch through the tube so the constellation projects on a wall.
7. Repeat for however many tubes you'd like to make!



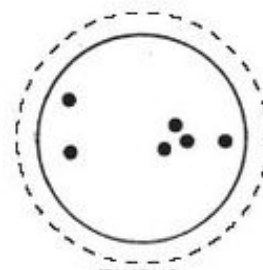
URSA MAJOR,  
the Great Bear



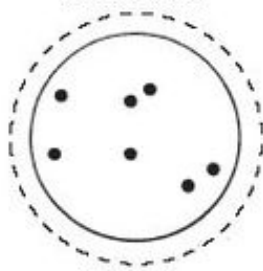
SCORPIUS,  
the Scorpion



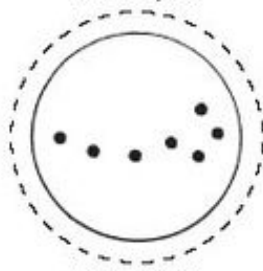
ORION,  
the Hunter



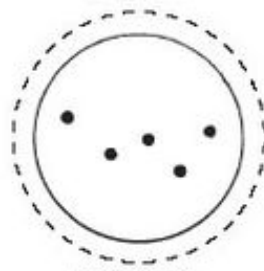
TAURUS,  
the Bull



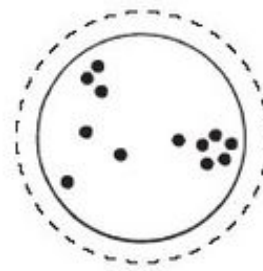
PEGASUS,  
the Flying Horse



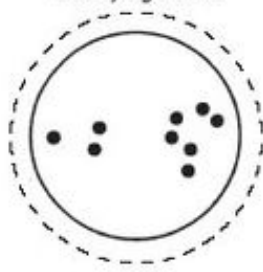
URSA MINOR,  
the Little Bear



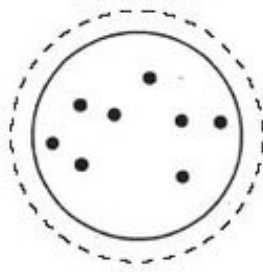
CASSIOPEIA,  
the Queen



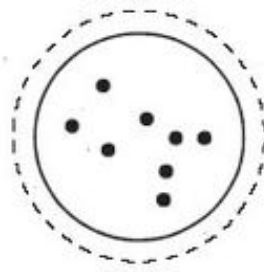
PISCES,  
the Fishes



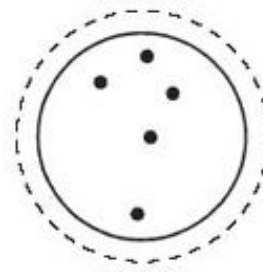
LEO,  
the Lion



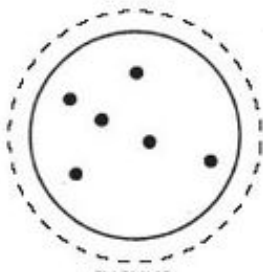
SAGITTARIUS,  
the Archer



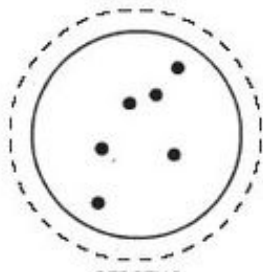
GEMINI,  
the Twins



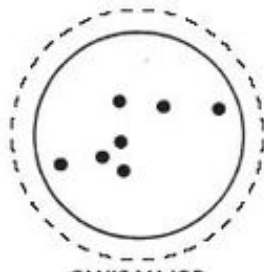
BOOTES,  
the Herdsman



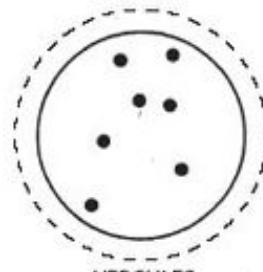
CYGNUS,  
the Swan



PERSEUS



CANIS MAJOR,  
the Big Dog



HERCULES