
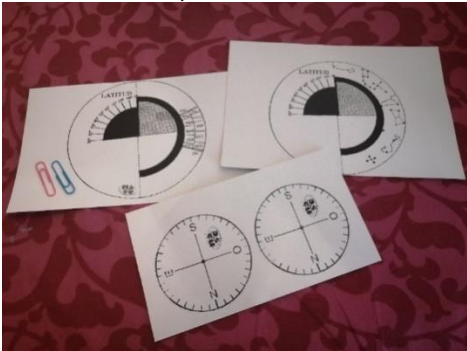

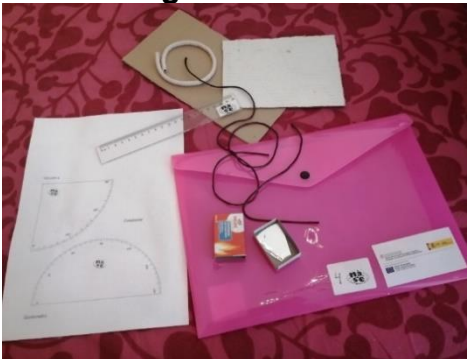








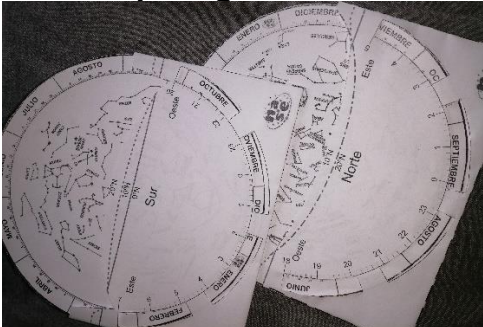



NASE FULL COURSE

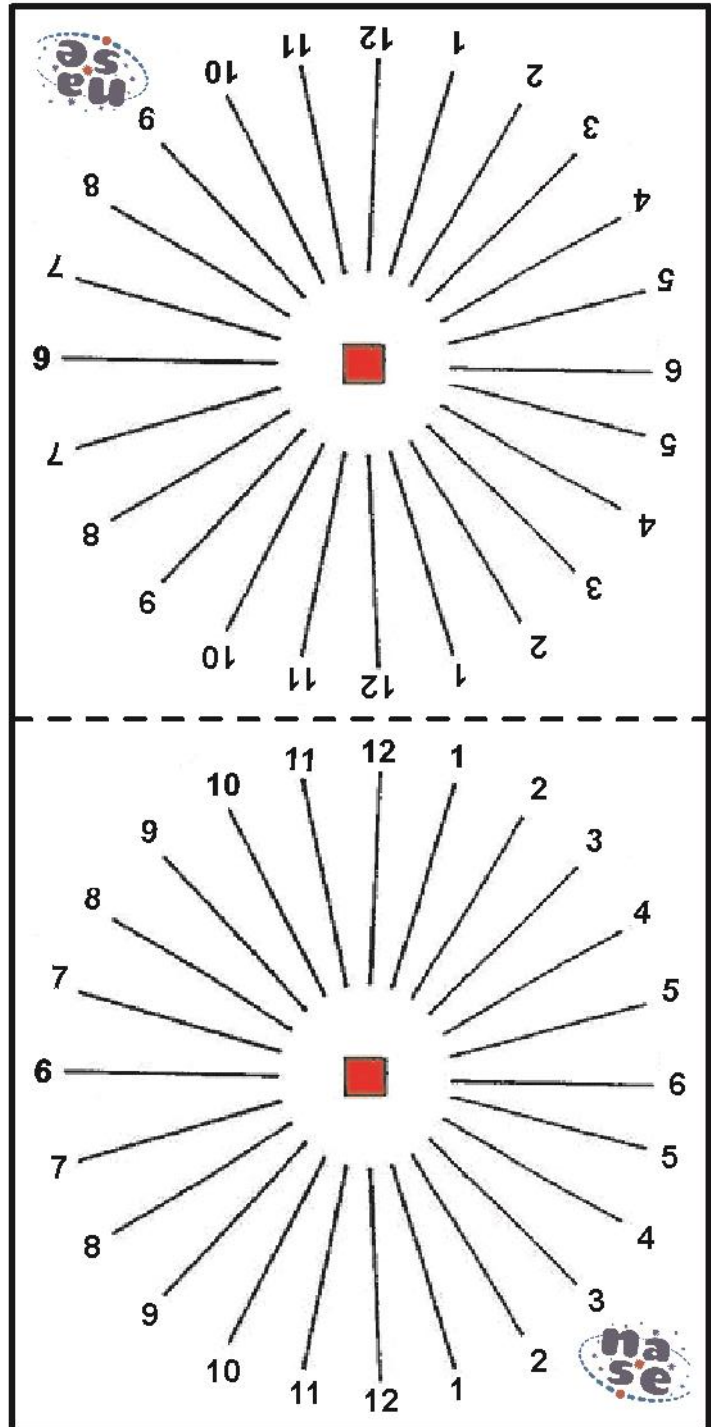
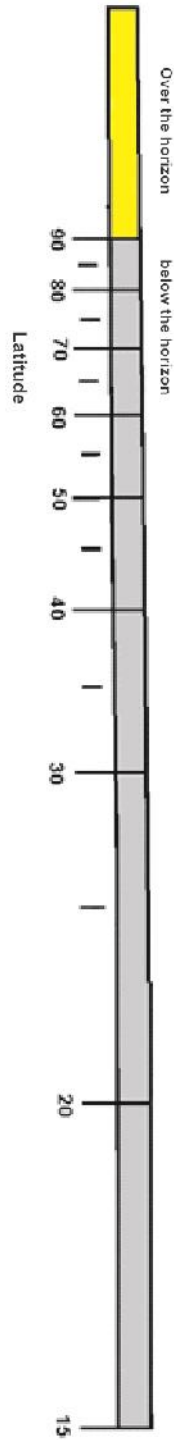
LAT. 0-20 N

Workshop	Materials	
WS1	Print the Workshop 1 scissors, glue, a piece of cardboard (DIN A4) Act. 2: a compass or a Compass app on the mobile phone 1 terrestrial sphere, 1 Blue Tack (pressure-sensitive adhesive), 1 small doll, 1 pen or a pencil, 1 cup or a glass not very tall, 30 toothpicks Act. 4: 1 stick of 15 cm long (a skewer)	WS1 Local Horizon and Sundials 
WS2	Print the Workshop 2 scissors glue a piece of cardboard (DIN A4) Act. 1, 2 and 3: 1 small doll 2 clips 1 stick of 15 cm long (a skewer)	WS2 Stellar, solar and lunar dem. 
WS3	scissors, glue, a piece of cardboard (DIN A4) Act. 5 and 6: 1 normal needle, 1 needle with a 2mm head, 1 ruler of 30 cm., 1 mobile phone 1 stick 28 cm (a skewer) Act. 9: 1 cardboard dinA3 which can be bent to make a tube, 2 elastic bands, 1 piece of aluminum foil (used in the kitchen), 1 white plastic bag,	WS3 Earth-moon-sun system 
WS4	Print the Workshop 4 a pair of scissors, glue, a cardboard box scotch tape 1 folder type bag 25 cm of big string Act. 1: a rope 1 m long, 1 ruler about 20 cm Act. 7: 1 matchbox, 1/8 part of an old CD, 1 black pen	WS4 Young astronomer briefcase 

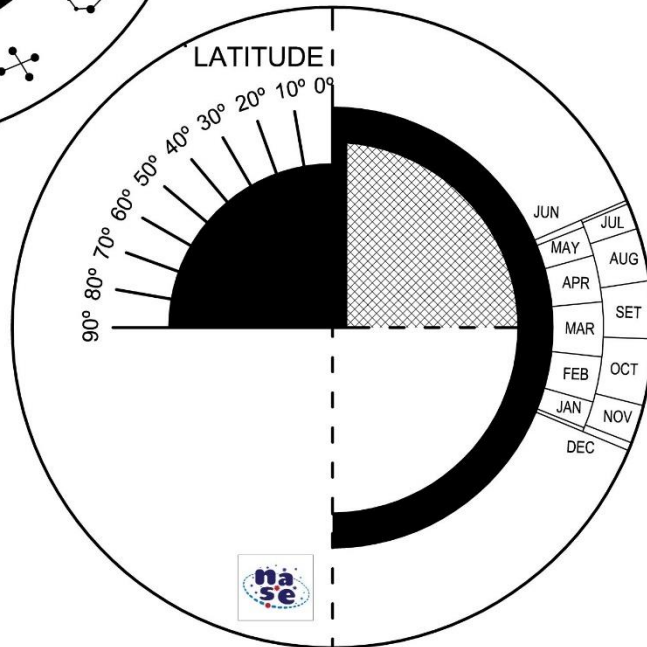
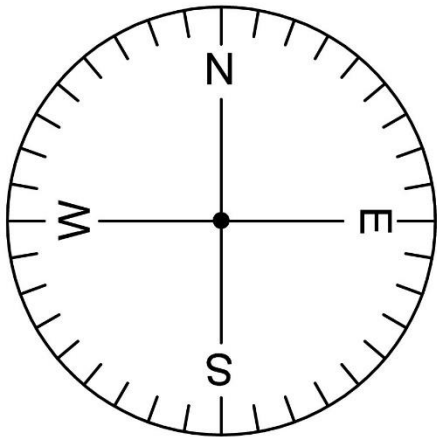
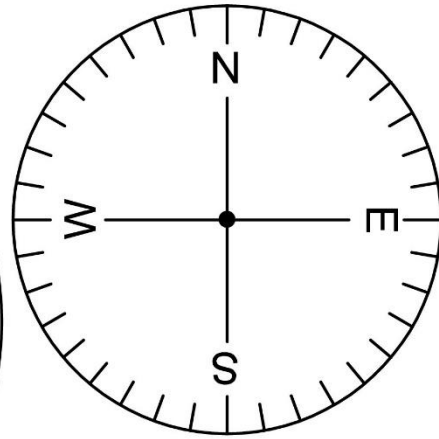
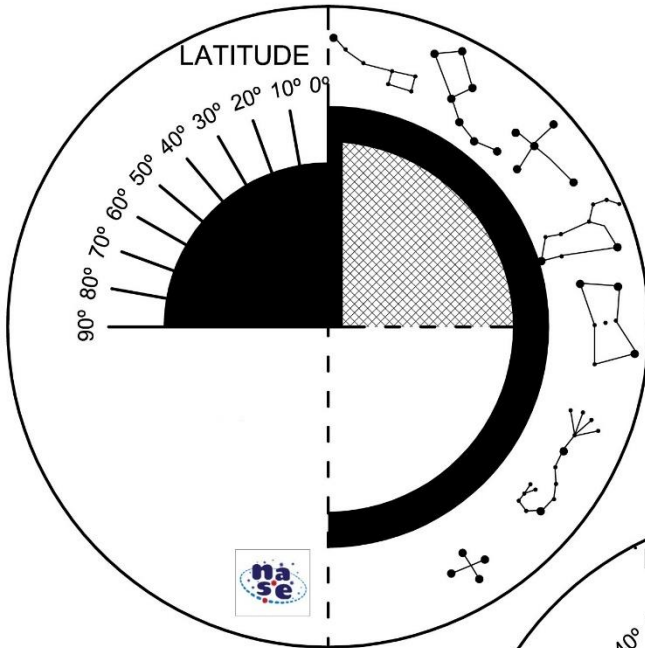
<p>WS5</p>	<p>Print Workshop 5 scissors, glue Act. 2: 1 ruler, scotch tape, 1 CD transparent box, 1 pair of polarised sun glasses Act. 4: protractor Act. 6: 1 candle and 1 flashlight or mobile flashlight Act. 8: 1 silicone stick and 1 mobile</p>	<p>WS5 Solar spectrum & sunspots</p> 
<p>WS6</p>	<p>scissors Act. 2: 1 ruler Act. 3: a black cardboard (DIN A4), 3 pieces of cellophane or transparent plastic foil coloured in red, blue and green, 3 flashlights or 3 mobile flashlights Act. 5: 1 basketball, 1 tennis ball Act. 6: 1 torch, 1 meter string</p>	<p>WS6 Stellar lives</p> 
<p>WS7</p>	<p>Print the Workshop7 scissors, glue, Act. 1: 1/10 part of CD or DVD, 1 roll of transparent tape, Act. 4: 1 remote control Act. 5: 1 piece of fabric, 1 flashlight with bulb (not with LED) Act. 9: identity card, passport, bills.</p>	<p>WS7 Astronomy beyond visible</p> 
<p>WS8</p>	<p>Print the file Workshop 8 one on white paper and the other on transparent paper glue Act. 2: a semi-rigid cable of the type used in domestic wiring about 1 m long Act. 3: an elastic bend about 30 cm long and 1 ruler Act. 4: 2-3 balloons and polystyrene small balls or small pieces or paper confetti Act.6: Use the photocopies Act. 8: The broken basis of a cup of glass</p>	<p>WS8 Expansion of the Universe</p> 

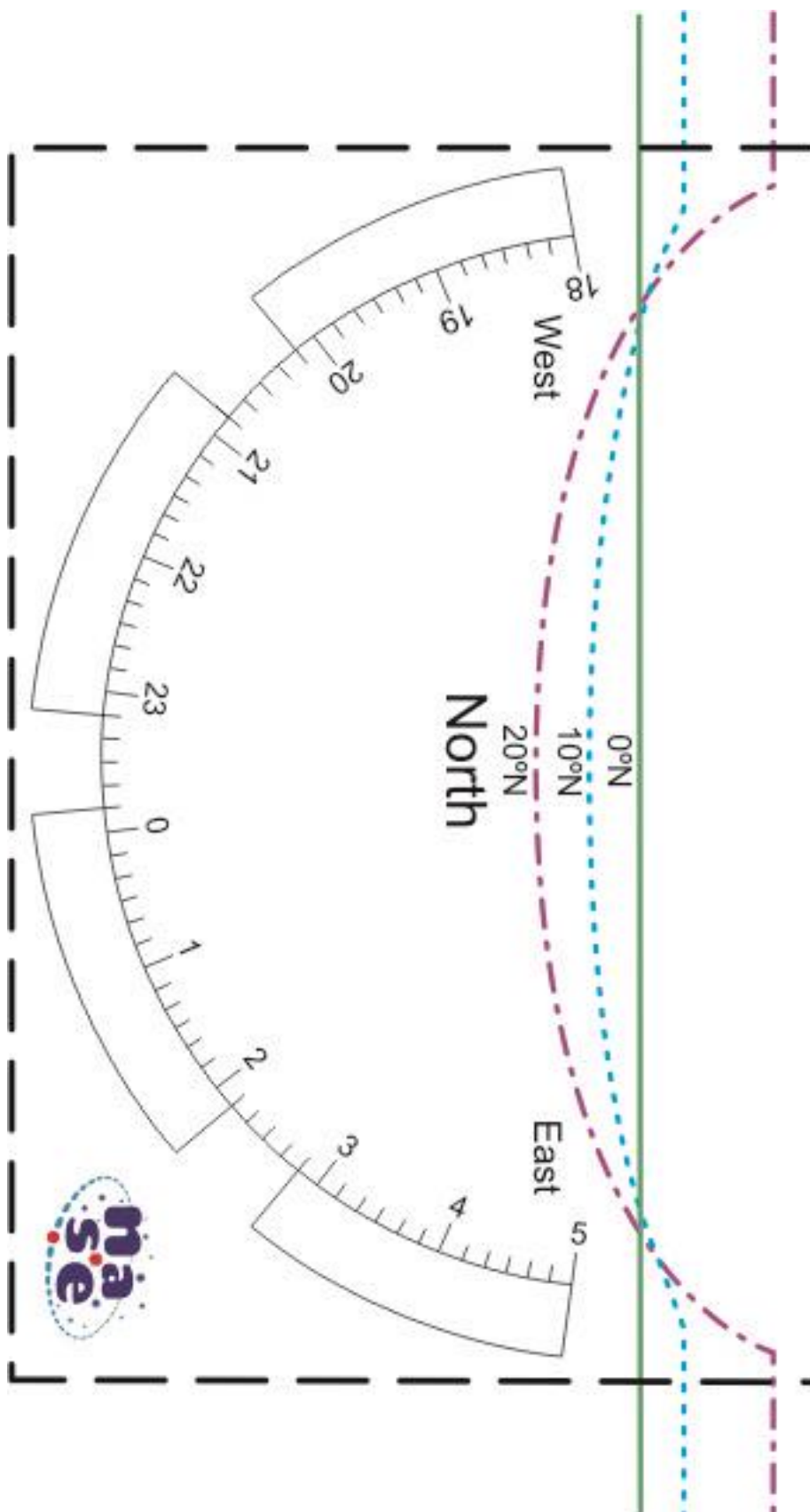
<p>WS9</p>	<p>scissors, glue, Act. 1: 1 toilet paper, 1 pen, 1 din4 paper, Act. 8: 1 brochette stick, 1 dina4 cardboard, Act. 9: 1meter string, 1 padlock (or a similar heavy object 2x2cm approx.), 1 plastic cylinder of 10cm (such as the exterior part of a pen), Act. 15: 2 bases of glass, 1 ball or coin of 1cm diameter.</p>	<p>WS9 Planets and exoplanets</p> 
<p>WS10</p>	<p>Act. 2: 1 red cardboard dinA4, 1 yellow cardboard dinA4, 1 blue cardboard dinA4, 1 button battery, 1 gold ring, 1 Gallium thermometer, 1 Iron nail, 1 matchbox, 1 piece of electric copper wire, 1 black pencil lead, 1 mobile battery, 1 aluminum pencil sharpener, 1 can of Coca-Cola or similar, 1 helium balloon, 1 iodine solution. Act. 4: ½ glass of hot water close to boiling, 1 syringe of 5 cm3</p>	<p>WS10 Elements of Astrobiology</p> 
<p>WG1</p>	<p>scissors</p>	<p>WG1 Preparing Observations.</p> 
<p>WG2</p>	<p>It is necessary to use the 2 demonstrators of workshop 2 and the Planisphere of Workshop 4 and Working Group 1</p>	<p>WG2 Astronomy in the city</p> 

WORKSHOP 1



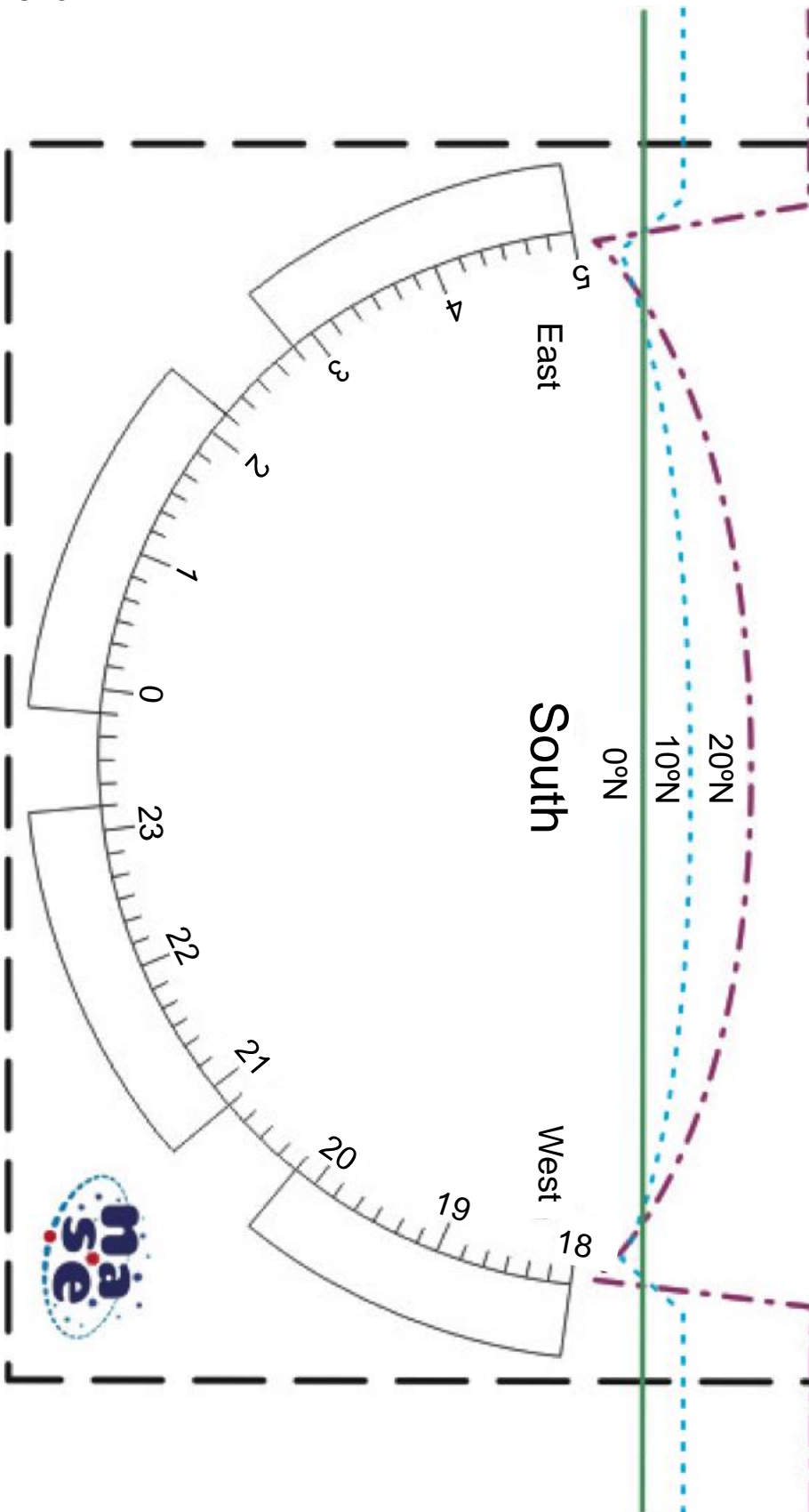
WORKSHOP 2 NORTE



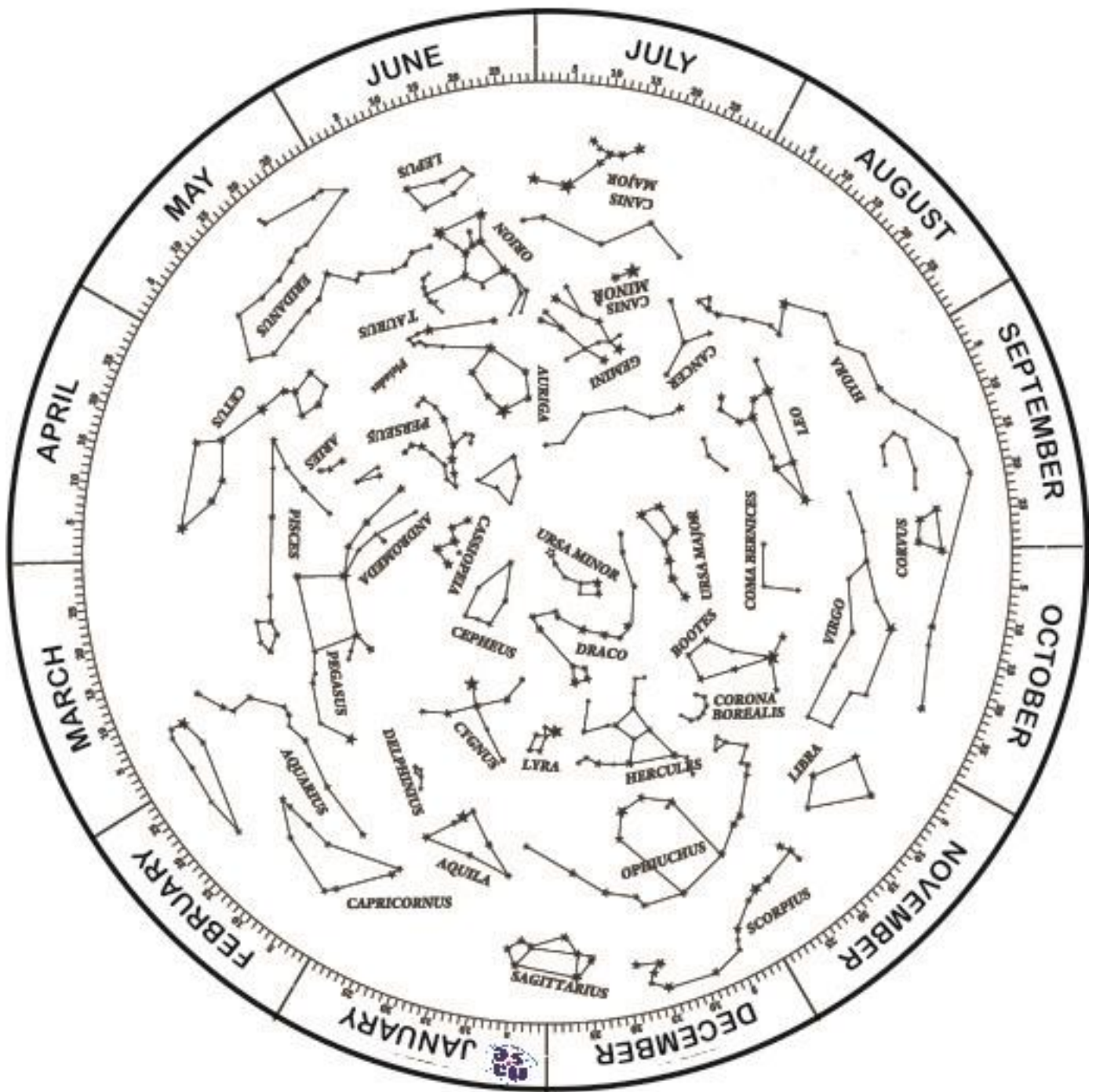


WORKSHOP 4

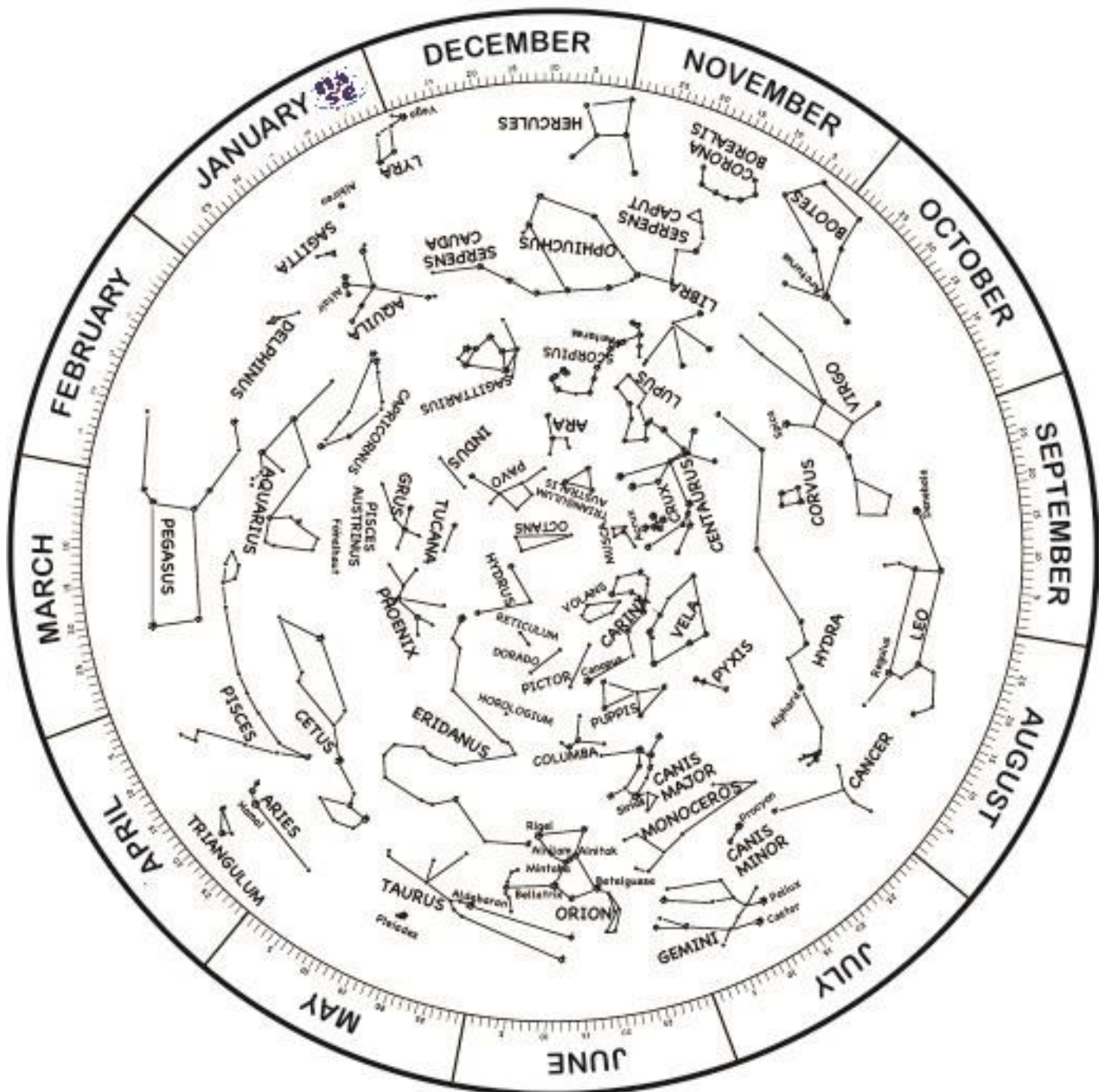
WORKSHOP 4

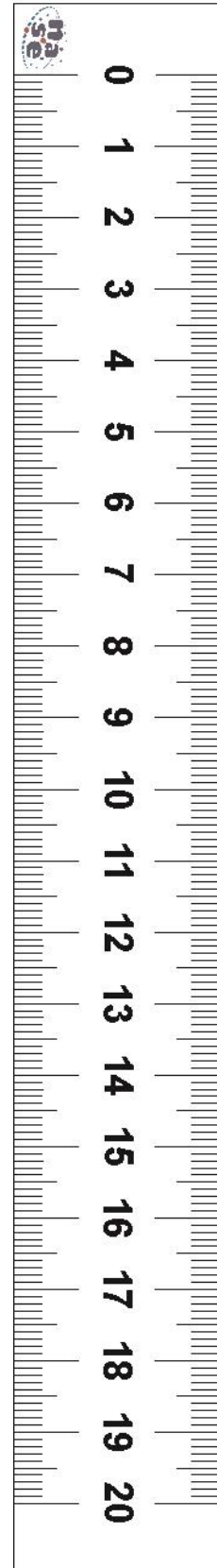
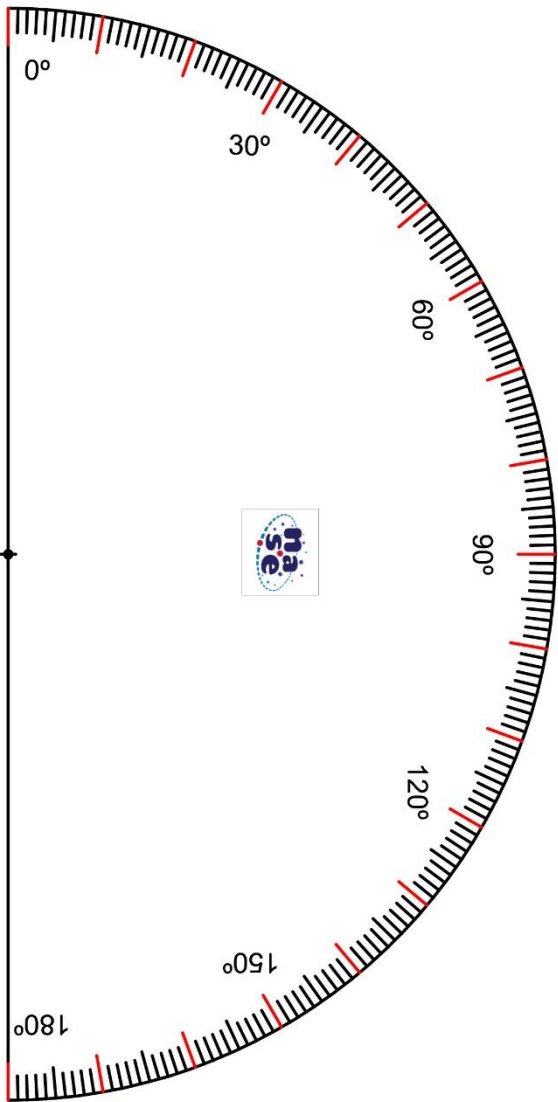
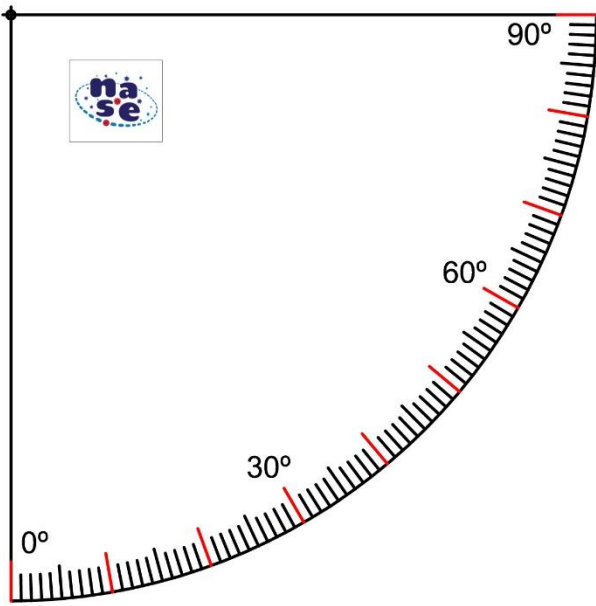


WORKSHOP 4



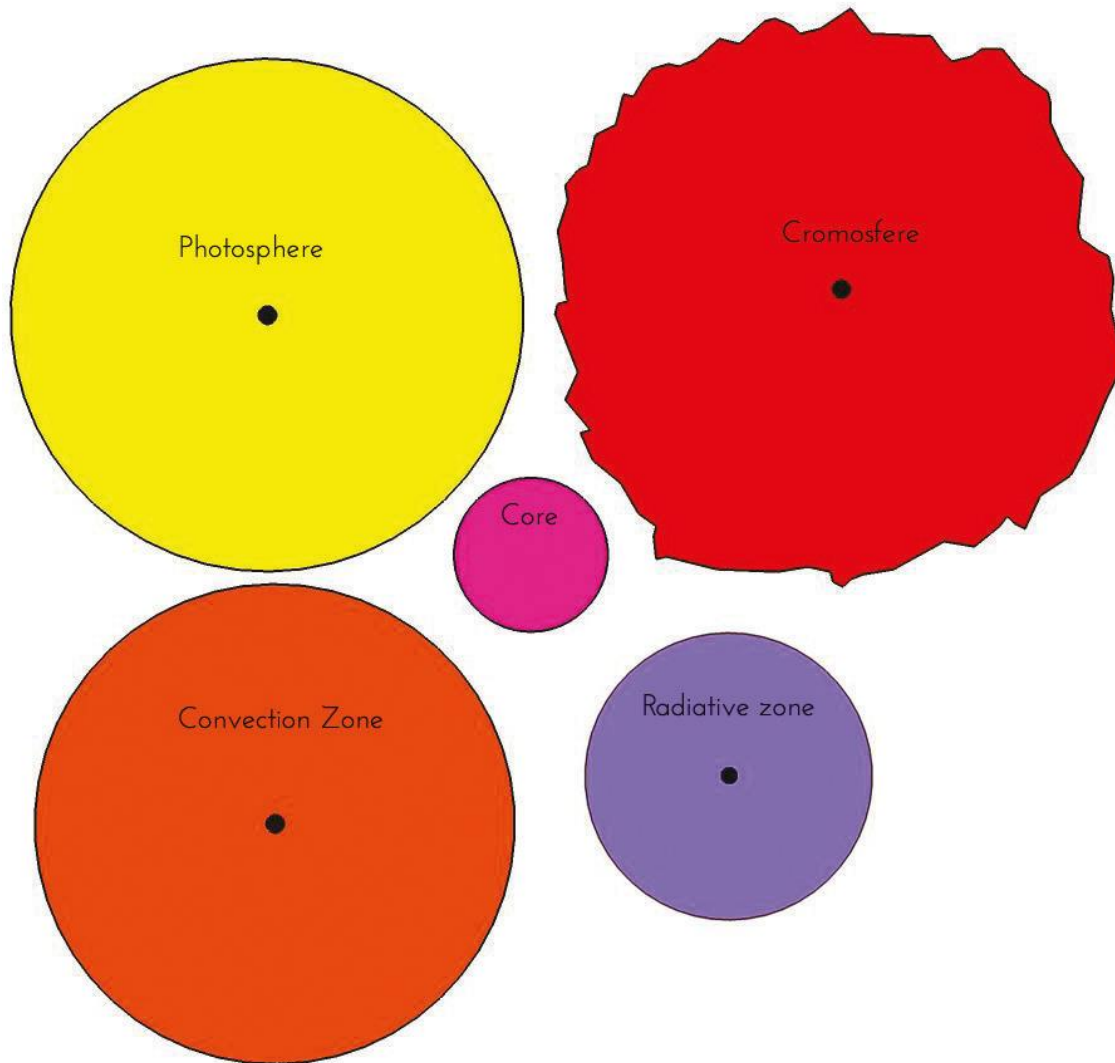
WORKSHOP 4



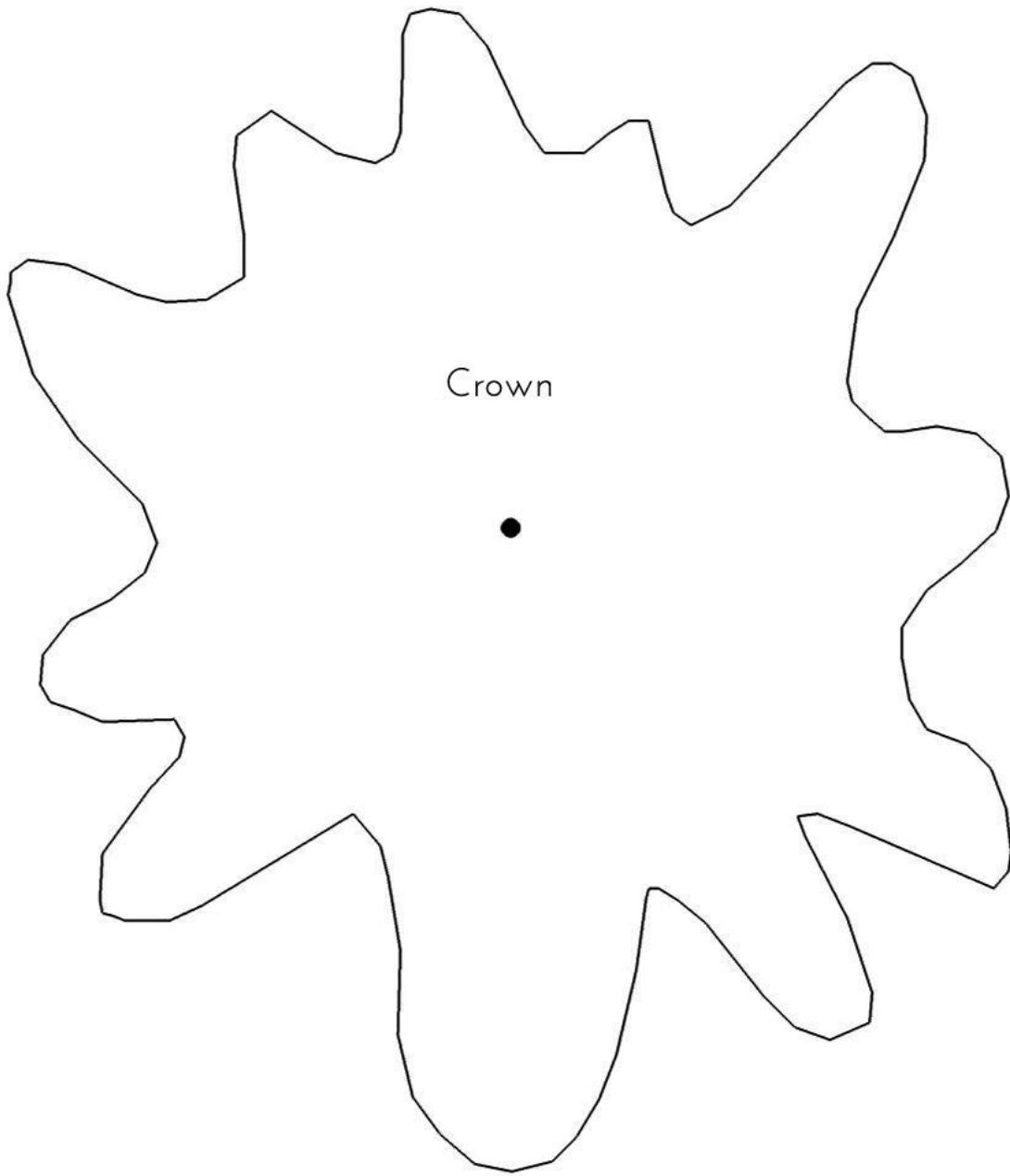


WORKSHOP 4

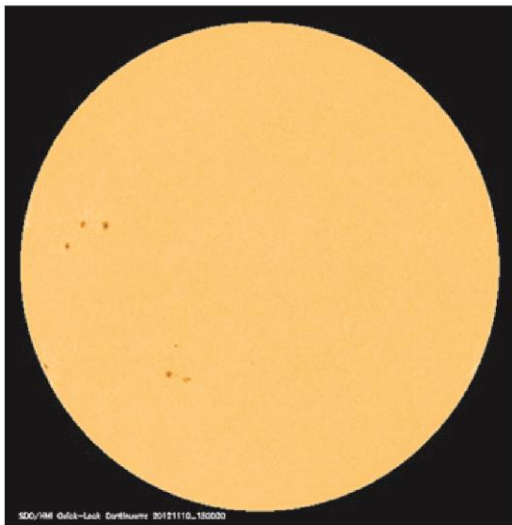
WORKSHOP 5



WORKSHOP 5

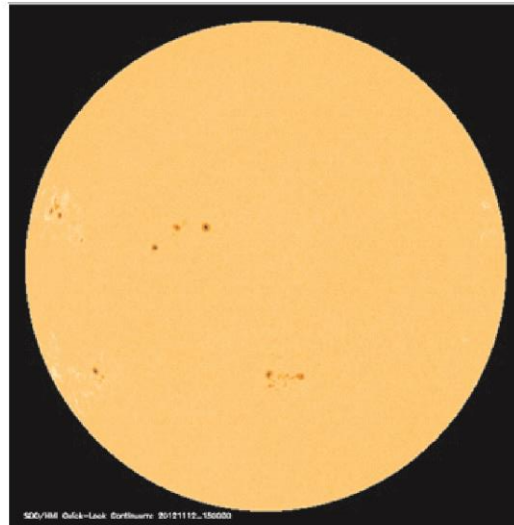


WORKSHOP 5



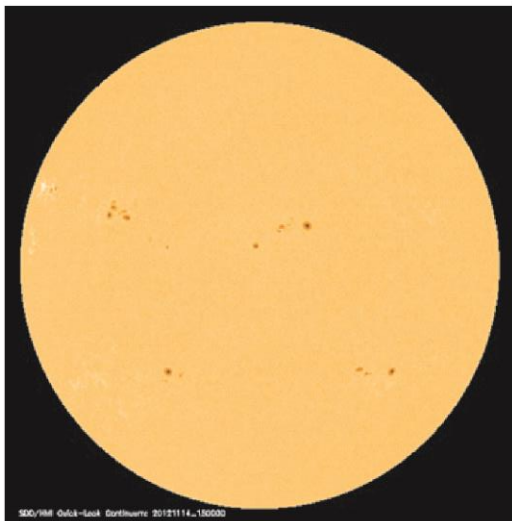
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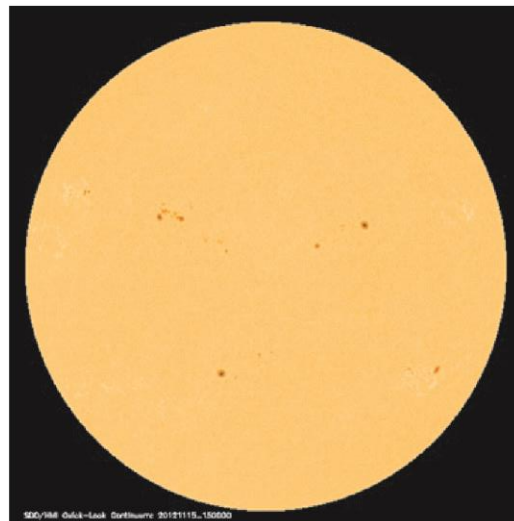
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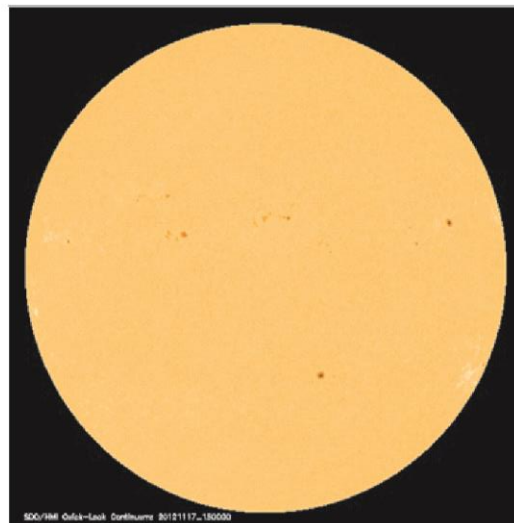
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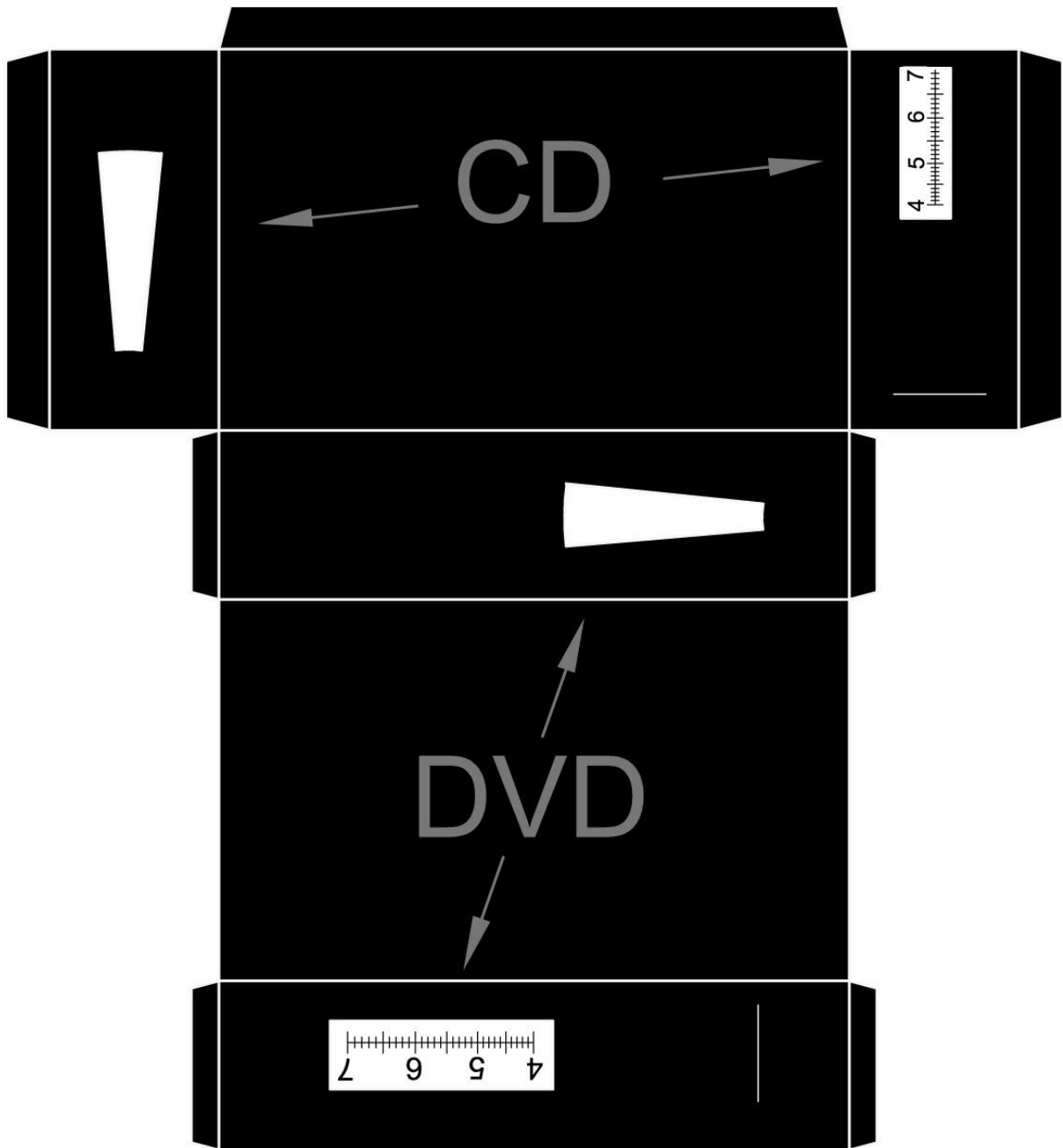
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WORKSHOP 6



WORKSHOP 7



WORKSHOP 8

